GenCore version 4.5

OM protein - protein search, using sw model

Run on: September 4, 2002, 14:04:21 ; Search time 99.82 Seconds
(without alignments)
114.763 Million cell updates/sec

Title: US-09-052-089A-1
Perfect score: 2384
Sequence: 1 MPIRALCTICSDFFDHSRDV.....VRVKTVPSLFQAKLDTFLWS 469

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	2384	100.0	469	4	US-09-052-089A-1	Sequence 1, Appli
2	2357	98.9	469	2	US-08-968-751-2	Sequence 2, Appli
3	1798.5	75.4	470	4	US-09-052-089A-2	Sequence 2, Appli
4	1066	44.7	220	4	US-09-052-089A-3	Sequence 3, Appli
5	906	38.0	220	4	US-09-052-089A-4	Sequence 4, Appli
6	275	11.5	51	4	US-09-052-089A-5	Sequence 5, Appli
7	272	11.4	51	4	US-09-052-089A-6	Sequence 6, Appli
8	168.5	7.1	443	2	US-08-795-475-6	Sequence 6, Appli
9	158	6.6	2482	1	US-08-328-254-6	Sequence 6, Appli
10	158	6.6	3248	1	US-08-353-700-1	Sequence 1, Appli
11	158	6.6	3248	5	PCT-US95-16216-1	Sequence 1, Appli
12	157	6.6	756	4	US-09-085-199B-9	Sequence 9, Appli
13	156	6.5	976	4	US-09-104-324B-4	Sequence 4, Appli
14	156	6.5	1939	4	US-09-310-187A-1	Sequence 1, Appli
15	154	6.5	1886	4	US-08-938-105-3	Sequence 3, Appli
16	152	6.4	2101	1	US-08-466-390-4	Sequence 4, Appli
17	152	6.4	2101	1	US-08-470-950-4	Sequence 4, Appli
18	152	6.4	2101	1	US-08-467-781-4	Sequence 4, Appli
19	152	6.4	2101	1	US-08-195-487-4	Sequence 4, Appli
20	152	6.4	2101	2	US-08-483-924-4	Sequence 4, Appli
21	152	6.4	2101	4	US-09-452-294-1	Sequence 1, Appli
22	152	6.4	2101	5	PCT-US93-06160-4	Sequence 4, Appli
23	149	6.2	896	1	US-08-095-737-2	Sequence 2, Appli
24	149	6.2	896	1	US-08-480-145-2	Sequence 2, Appli
25	149	6.2	896	2	US-08-477-389-2	Sequence 2, Appli
26	149	6.2	1093	5	PCT-US93-03077-1	Sequence 1, Appli
27	148.5	6.2	1312	2	US-08-687-080-51	Sequence 51, Appl
28	147.5	6.2	316	4	US-08-098-327E-31	Sequence 31, Appl
29	147.5	6.2	316	4	US-08-462-625-31	Sequence 31, Appl
30	147.5	6.2	1090	4	US-09-085-199B-5	Sequence 5, Appli
31	147.5	6.2	1312	2	US-08-592-126-148	Sequence 148, App
32	146.5	6.1	914	4	US-09-085-199B-4	Sequence 4, Appli
33	146	6.1	1068	4	US-09-085-199B-11	Sequence 11, Appl
34	145.5	6.1	1713	3	US-08-600-982-24	Sequence 24, Appl
35	145.5	6.1	1713	5	PCT-US94-10261A-24	Sequence 24, Appl
36	144	6.0	376	6	5180810-1	Patent No. 5180810
37	144	6.0	414	5	PCT-US93-03077-3	Sequence 3, Appli
38	142.5	6.0	816	2	US-08-533-306A-6	Sequence 6, Appli
39	142.5	6.0	816	2	US-08-742-923A-6	Sequence 6, Appli
40	142.5	6.0	885	2	US-08-533-306A-4	Sequence 4, Appli
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44	139.5	5.9	1360	4	US-09-393-569-2	Sequence 2, Appli
45	139	5.8	386	4	US-09-085-199B-2	Sequence 2, Appli

ALIGNMENTS

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RESULT 1
US-09-052-089A-1
; Sequence 1, Application US/09052089A
; Patent No. 6346605
;  GENERAL INFORMATION:
;       APPLICANT: Lee, Soo Y.
;                  Choi, Yongwon
;       TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                           FAMILY, AND USES THEREOF
;       NUMBER OF SEQUENCES: 16
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: David A. Jackson, Esq.
;            STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                    Floor
;            CITY: Hackensack
;            STATE: New Jersey
;            COUNTRY: USA
;            ZIP: 07601
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/052,089A
;            FILING DATE: 31-Mar-1998
;            CLASSIFICATION: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Jackson Esq., David A.
;            REGISTRATION NUMBER: 26,742
;            REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 201-487-5800
;            TELEFAX: 201-343-1684
;  INFORMATION FOR SEQ ID NO: 1:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 469 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: NO
;       FRAGMENT TYPE: <Unknown>
;       ORIGINAL SOURCE:
;            ORGANISM: Homo sapiens
;       SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-052-089A-1


  Query Match             100.0%;  Score 2384;  DB 4;  Length 469;
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  Matches  469;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db       1 MPIRALCTICSDFFDHSRDVAAIHCGHTFHLQCLIQSFETAPSRTCPQCRIQVGKRTIIN 60

Qy      61 KLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVS 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 KLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVS 120

Qy     121 LQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEV 180
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RESULT   2
US-08-968-751-2
; Sequence 2, Application US/08968751
; Patent No. 5948643
;  GENERAL INFORMATION:
;    APPLICANT:  Rubinfeld, Bonnee
;    APPLICANT:  Polakis, Paul G.
;    APPLICANT:  Ligenfelter, Carol
;    APPLICANT:  Vuong, Terilyn T.
;    TITLE OF INVENTION:  MODULATORS OF BRCA1 ACTIVITY
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ONYX Pharmaceuticals, Inc.
;      STREET:  3031 Research Drive
;      CITY:  Richmond
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94806
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/968,751
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Giotta, Gregory
;      REGISTRATION NUMBER:  32,028
;      REFERENCE/DOCKET NUMBER:  ONYX1024 GG
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (510) 262-8710
;      TELEFAX:  (510) 222-9758
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 469 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-968-751-2


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Qy      61 KLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVS 120
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Db      61 KLFFDLAQEEENVLDAEFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVS 120

Qy     121 LQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEV 180
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Db     121 LQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEARRLRSKMKTMEQIELLLQSQRPEV 180

Qy     181 EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVY 240
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Qy     241 SELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVE 300
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Qy     301 VNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGP 360
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Qy     421 GGRTKFIQPTDTVMIRPLPVKPKTKVKQRVRVKTVPSLFQAKLDTFLWS 469
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RESULT   3
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; Sequence 2, Application US/09052089A
; Patent No. 6346605
;   GENERAL INFORMATION:
;        APPLICANT: Lee, Soo Y.
;                   Choi, Yongwon
;        TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                            FAMILY, AND USES THEREOF
;        NUMBER OF SEQUENCES: 16
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: David A. Jackson, Esq.
;             STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                     Floor
;             CITY: Hackensack
;             STATE: New Jersey
;             COUNTRY: USA
;             ZIP: 07601
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/052,089A
;             FILING DATE: 31-Mar-1998
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Jackson Esq., David A.
;             REGISTRATION NUMBER: 26,742
```

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;            REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;        TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 201-487-5800
;            TELEFAX: 201-343-1684
;   INFORMATION FOR SEQ ID NO: 2:
;        SEQUENCE CHARACTERISTICS:
;            LENGTH: 470 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: NO
;        FRAGMENT TYPE: <Unknown>
;        ORIGINAL SOURCE:
;            ORGANISM: mouse
;        SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-052-089A-2


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Db      61 KLFFDLAQEEENVLDAEFLKNELDSVKAQLSQKDREKRDSQAIIDTLRDTLEERNATVES 120

Qy     121 LQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEV 180
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Qy     181 EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVY 240
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Db     181 EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSKLKTLN 240

Qy     241 SELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVE 300
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Db     241 TELDQAKLELRSAQKDLQSADQEITSLRKKSDDPPGNLEPASATNETVSRLVFESPAPVE 300

Qy     301 -VNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKG 359
            :| :| :| | |:|||| ||||:||| : | ||    :|||||:: ||:|:| ||: |
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Qy     360 PRKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSCSKDVVRTGFDG 419
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Db     361 SKPESQLSLGGQRCVGELDEELAGAFPLFIRNAVLGQKQPNRTTAESRSSTDVVRIGFDG 420

Qy     420 LGGRTKFIQPTDTVMIRPLPVKPKTKVKQRVRVKTVPSLFQAKLDTFL 467
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RESULT   4
US-09-052-089A-3
; Sequence 3, Application US/09052089A
; Patent No. 6346605
;   GENERAL INFORMATION:
;        APPLICANT: Lee, Soo Y.
;                   Choi, Yongwon
;        TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                            FAMILY, AND USES THEREOF
;        NUMBER OF SEQUENCES: 16
;        CORRESPONDENCE ADDRESS:
;            ADDRESSEE: David A. Jackson, Esq.
;            STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                    Floor
;            CITY: Hackensack
;            STATE: New Jersey
;            COUNTRY: USA
;            ZIP: 07601
;        COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/052,089A
;            FILING DATE: 31-Mar-1998
;            CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;            NAME: Jackson Esq., David A.
;            REGISTRATION NUMBER: 26,742
;            REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;        TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 201-487-5800
;            TELEFAX: 201-343-1684
;   INFORMATION FOR SEQ ID NO: 3:
;        SEQUENCE CHARACTERISTICS:
;            LENGTH: 220 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        HYPOTHETICAL: NO
;        FRAGMENT TYPE: internal
;        ORIGINAL SOURCE:
;            ORGANISM: Homo sapiens
;        SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-052-089A-3


  Query Match             44.7%;  Score 1066;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 5.2e-84;
  Matches  220;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      56 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 115
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Qy     116 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 175
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Db      61 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 120

Qy     176 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 235
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Db     121 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 180

Qy     236 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 275
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RESULT   5
US-09-052-089A-4
; Sequence 4, Application US/09052089A
; Patent No. 6346605
;   GENERAL INFORMATION:
;        APPLICANT: Lee, Soo Y.
;                   Choi, Yongwon
;        TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                            FAMILY, AND USES THEREOF
;        NUMBER OF SEQUENCES: 16
;        CORRESPONDENCE ADDRESS:
;            ADDRESSEE: David A. Jackson, Esq.
;            STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                    Floor
;            CITY: Hackensack
;            STATE: New Jersey
;            COUNTRY: USA
;            ZIP: 07601
;        COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
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;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/052,089A
;             FILING DATE: 31-Mar-1998
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Jackson Esq., David A.
;             REGISTRATION NUMBER: 26,742
;             REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 201-487-5800
;             TELEFAX: 201-343-1684
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 220 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        HYPOTHETICAL: NO
;        FRAGMENT TYPE: internal
;        ORIGINAL SOURCE:
;             ORGANISM: mouse
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-052-089A-4


  Query Match             38.0%;  Score 906;  DB 4;  Length 220;
  Best Local Similarity   86.0%;  Pred. No. 2.8e-70;
  Matches  185;  Conservative   18;  Mismatches   12;  Indels    0;  Gaps    0;

Qy      56 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 115
           :|||||||||||||||||| |||||||:|:|||||||:|||||| ||||||||||||
Db       1 KTIINKLFFDLAQEEENVLDAEFLKNELDSVKAQLSQKDREKRDSQAIIDTLRDTLEERN 60

Qy     116 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 175
           ||| ||| || ||||||||||||||:|||:|||||||:||| ||: ||||||||||||||
Db      61 ATVESLQNALNKAEMLCSTLKKQMKFLEQRQDETKQAREEAHRLKCKMKTMEQIELLLQS 120

Qy     176 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 235
           |  |||||||||||||||||||||||||||||||||||||||:||:||:|:||| |||||
Db     121 QRSEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSK 180

Qy     236 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 270
           |:|: :|||||||||:||||||||||:|| ||:||
Db     181 LKTLNTELDQAKLELRSAQKDLQSADQEITSLRKK 215


RESULT   6
US-09-052-089A-5
; Sequence 5, Application US/09052089A
; Patent No. 6346605
;   GENERAL INFORMATION:
;        APPLICANT: Lee, Soo Y.
;                   Choi, Yongwon
;        TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                            FAMILY, AND USES THEREOF
;        NUMBER OF SEQUENCES: 16
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: David A. Jackson, Esq.
;             STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                     Floor
;             CITY: Hackensack
;             STATE: New Jersey
;             COUNTRY: USA
;             ZIP: 07601
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/052,089A
;             FILING DATE: 31-Mar-1998
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Jackson Esq., David A.
;             REGISTRATION NUMBER: 26,742
;             REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 201-487-5800
;             TELEFAX: 201-343-1684
;   INFORMATION FOR SEQ ID NO: 5:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 51 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        HYPOTHETICAL: NO
;        FRAGMENT TYPE: internal
;        ORIGINAL SOURCE:
;             ORGANISM: Homo sapiens
;        SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-052-089A-5


  Query Match             11.5%;  Score 275;  DB 4;  Length 51;
  Best Local Similarity   96.1%;  Pred. No. 5.2e-17;
  Matches   49;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       4 RALCTICSDFFDHSRDVAAIHCGHTFHLQCLIQSFETAPSRTCPQCRIQVG 54
           |||||||||||||||||| |||||||||||||||||||||||||||||||
Db       1 RALCTICSDFFDHSRDVAAMDCGHTFHLQCLIQSFETAPSRTCPQCRIQVG 51


RESULT   7
US-09-052-089A-6
; Sequence 6, Application US/09052089A
; Patent No. 6346605
;   GENERAL INFORMATION:
;        APPLICANT: Lee, Soo Y.
;                   Choi, Yongwon
;        TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                            FAMILY, AND USES THEREOF
;        NUMBER OF SEQUENCES: 16
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: David A. Jackson, Esq.
;             STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                     Floor
;             CITY: Hackensack
;             STATE: New Jersey
;             COUNTRY: USA
;             ZIP: 07601
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/052,089A
;             FILING DATE: 31-Mar-1998
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Jackson Esq., David A.
;             REGISTRATION NUMBER: 26,742
;             REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 201-487-5800
;             TELEFAX: 201-343-1684
;   INFORMATION FOR SEQ ID NO: 6:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 51 amino acids
;             TYPE: amino acid
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;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        HYPOTHETICAL: NO
;        FRAGMENT TYPE: internal
;        ORIGINAL SOURCE:
;             ORGANISM: mouse
;        SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-052-089A-6


  Query Match            11.4%;  Score 272;  DB 4;  Length 51;
  Best Local Similarity   96.0%;  Pred. No. 9.4e-17;
  Matches   48;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       5 ALCTICSDFFDHSRDVAAIHCGHTFHLQCLIQSFETAPSRTCPQCRIQVG 54
           :||||||||||||||||||||||||||||||| ||||||||||||||||||
Db       2 SLCTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPQCRIQVG 51


RESULT   8
US-08-795-475-6
; Sequence 6, Application US/08795475
; Patent No. 5965390
;  GENERAL INFORMATION:
;    APPLICANT:  Bjvrck, Lars
;    APPLICANT:  Sjvbring, Ulf
;    TITLE OF INVENTION:  PROTEIN L AND HYBRID PROTEINS THEREOF
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SEED and BERRY LLP
;      STREET:  6300 Columbia Center, 701 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98104-7092
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/795,475
;      FILING DATE:  11-FEB-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McMasters, David D.
;      REGISTRATION NUMBER:  33,963
;      REFERENCE/DOCKET NUMBER:  100084.402D1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 622-4900
;      TELEFAX:  (206) 682-6031
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  443 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-795-475-6


  Query Match             7.1%;  Score 168.5;  DB 2;  Length 443;
  Best Local Similarity   20.7%;  Pred. No. 1.5e-06;
  Matches   73;  Conservative   76;  Mismatches  136;  Indels   67;  Gaps   11;

Qy      64 FDLAQEEENVLDREFLKNELDNVRAQLSQK-DKEKRDSQVIIDTLRDTLEERNATVVSLQ 122
           :|||:|  :  ||: |: ||:  :  |    |:  ||        ::  |:: |  :::
Db      78 YDLAKESTS-WDRQRLEKELEEKKEALELAIDQASRDYHRATALEKELEEKKKALELAID 136

Qy     123 QALGKAEMLCSTLKKQMKYLEQQQDETK----QAQEEAGRLRSKMK--TMEQIELLLQSQ 176
           ||  :     : |:|::: : ::|:  :     |: |  :| |: :  |:|: :|  : |
Db     137 QA-SQDYNRANVLEKELETITREQEINRNLLGNAKLELDQLSSEKEQLTIEKAKLEEEKQ 195

Qy     177 LPEV--EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSR- 233
           : :   : : ||:   : | :|:     :|  | : :|| :: |     :||:|| :||
Db     196 ISDASRQSLRRDLDASREAKKQVEKDLANLTAELDKVKEDKQISDASRQRLRRDLDASRE 255

Qy     234 ------SKLQTVYSELDQAKLE--------------------LKSAQKDLQSADKEIMS 266
                 |  : :|||: | |                      |  :| |: |: :: :
Db     256 AKKQVEKDLANLTAELDKVKEEKQISDASRQRLRRDLDASREAKKQVEKALEEANSKLAA 315

Qy     267 LKKKLTMLQETLNLPPVASETVDRLVLESPAPVEVNLKLRRPSFRDDIDLNA-------- 318
           |:|    |:|:           :|  :  | ::  |:    : :: :   |
Db     316 LEKLNKELEES-----------KKLTEKEKAELQAKLEAEAKALKEQLAKQAEELAKLRA 364

Qy     319 --TFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGPRKESQLSL 368
               |  ||  :| :       |    |  :|         | | ||:  |
Db     365 GKASDSQTPDTKPGN-------KAVPGKGQAPQAGTKPNQNKAPMKETKRQL 409


RESULT   9
US-08-328-254-6
; Sequence 6, Application US/08328254
; Patent No. 5710022
;  GENERAL INFORMATION:
;    APPLICANT:  Zhu, Xueliang
;    APPLICANT:  Lee, Wen-Hwa
;    TITLE OF INVENTION:  A No. 5710022el Nuclear Mitotic Phosphoprotein
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell and Flores
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/328,254
;      FILING DATE:  24-OCT-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/141,239
;      FILING DATE:  22-OCT-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-CJ 1191
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2482 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-328-254-6


  Query Match             6.6%;  Score 158;  DB 1;  Length 2482;
  Best Local Similarity   23.2%;  Pred. No. 0.00014;
  Matches   56;  Conservative   55;  Mismatches   94;  Indels   36;  Gaps    6;

Qy      74 LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKA-EMLC 132
           ||   |::| :|:  |: :|  :  :   :: : :  |||:    : :::    | |||
Db    1571 LDLVTLRSEKENLTKQIQEKQGQLSELDKLLSSFKSLLEEKEQAEIQIKEESKTAVEMLQ 1630

Qy     133 STLKKQ------------MKYLEQQQD----ETKQAQEEAGRLRSKMKTMEQIELLLQS 175
           : ||:               ||  ||  |    |  | :    :||:::  |: :| :
Db    1631 NQLKELNEAVAALCGDQEIMKATEQSLDPPIEEEHQLRNSIEKLRARLEADEKKQLCVLQ 1690
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Qy     176 QLPE-----------VEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADK 224
           || |           || : |:: : ::  |  |:   : | | | ||   :   :
Db    1691 QLKESEHHADLLKGRVENLERELEIARTNQEHAALEAENSKGEVETLKAKIEGMTQSLRG 1750

Qy     225 LRKDLFSSRSKLQTVYSELDQ-----AKLEL--KSAQKDLQSADKEIMSLKKKLTMLQET 277
           |  |: : ||: : : :|| :     ::||:   | :  ||  ::| : :|:| :   |
Db    1751 LELDVVTIRSEKENLTNELQKEQERISELEIINSSFENILQEKEQEKVQMKEKSSTAMEM 1810

Qy     278 L 278
           |
Db    1811 L 1811


RESULT  10
US-08-353-700-1
; Sequence 1, Application US/08353700
; Patent No. 5599919
;  GENERAL INFORMATION:
;    APPLICANT:  YEN, TIMOTHY J.
;    APPLICANT:  RATTNER, JEROME B.
;    TITLE OF INVENTION:  NUCLEIC ACID ENCODING A
;    TITLE OF INVENTION:  TRANSIENTLY-EXPRESSED KINETOCHORE PROTEIN,
;    TITLE OF INVENTION:  AND METHODS OF USE
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  DANN, DORFMAN, HERRELL AND SKILLMAN
;      STREET:  1601 MARKET STREET, SUITE 720
;      CITY:  PHILADELPHIA
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19103-2307
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/353,700
;      FILING DATE:  09-DEC-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  REED, JANET E.
;      REGISTRATION NUMBER:  36,252
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (215) 563-4100
;      TELEFAX:  (215) 563-4044
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3248 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  HUMAN
US-08-353-700-1


  Query Match             6.6%;  Score 158;  DB 1;  Length 3248;
  Best Local Similarity   23.2%;  Pred. No. 0.00021;
  Matches   56;  Conservative   55;  Mismatches   94;  Indels   36;  Gaps    6;

Qy      74 LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKA-EMLC 132
           ||   |::| :|:  |: :|  :  :   :: : :  |||:    : :::    | |||
Db    2299 LDLVTLRSEKENLTKQIQEKQGQLSELDKLLSSFKSLLEEKEQAEIQIKEESKTAVEMLQ 2358

Qy     133 STLKKQ------------MKYLEQQQD----ETKQAQEEAGRLRSKMKTMEQIELLLQS 175
           : ||:              ||  ||  |    |  | :    :||:::  |: :| :
Db    2359 NQLKELNEAVAALCGDQEIMKATEQSLDPPIEEEHQLRNSIEKLRARLEADEKKQLCVLQ 2418

Qy     176 QLPE-----------VEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADK 224
           || |           || : |:: : ::  |  |:   : | | | ||   :   :
Db    2419 QLKESEHHADLLKGRVENLERELEIARTNQEHAALEAENSKGEVETLKAKIEGMTQSLRG 2478

Qy     225 LRKDLFSSRSKLQTVYSELDQ-----AKLEL--KSAQKDLQSADKEIMSLKKKLTMLQET 277
           |  |: : ||: : : :|| :     ::||:   | :  ||  ::| : :|:| :   |
Db    2479 LELDVVTIRSEKENLTNELQKEQERISELEIINSSFENILQEKEQEKVQMKEKSSTAMEM 2538

Qy     278 L 278
           |
Db    2539 L 2539


RESULT  11
PCT-US95-16216-1
; Sequence 1, Application PC/TUS9516216
;  GENERAL INFORMATION:
;    APPLICANT:  Yen, Timothy J.
;    APPLICANT:  Rattner, Jerome B.
;    TITLE OF INVENTION:  Nucleic Acid Encoding a Transiently
;    TITLE OF INVENTION:  Expressed Kinetochore Protein, and Methods of Use
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dann, Dorfman, Herrell and Skillman
;      STREET:  1601 Market Street   Suite 720
;      CITY:  Philadelphia
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19103-2307
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/16216
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/353,700
;      FILING DATE:  09-DEC-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Reed, Janet E.
;      REGISTRATION NUMBER:  36,252
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (215) 563-4100
;      TELEFAX:  (215) 563-4044
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3248 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
PCT-US95-16216-1


  Query Match             6.6%;  Score 158;  DB 5;  Length 3248;
  Best Local Similarity   23.2%;  Pred. No. 0.00021;
  Matches   56;  Conservative   55;  Mismatches   94;  Indels   36;  Gaps    6;

Qy      74 LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKA-EMLC 132
           ||   |::| :|:  |: :|  :  :   :: : :  |||:    : :::    | |||
Db    2299 LDLVTLRSEKENLTKQIQEKQGQLSELDKLLSSFKSLLEEKEQAEIQIKEESKTAVEMLQ 2358

Qy     133 STLKKQ------------MKYLEQQQD----ETKQAQEEAGRLRSKMKTMEQIELLLQS 175
           : ||:              ||  ||  |    |  | :    :||:::  |: :| :
Db    2359 NQLKELNEAVAALCGDQEIMKATEQSLDPPIEEEHQLRNSIEKLRARLEADEKKQLCVLQ 2418

Qy     176 QLPE-----------VEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADK 224
           || |           || : |:: : ::  |  |:   : | | | ||   :   :
Db    2419 QLKESEHHADLLKGRVENLERELEIARTNQEHAALEAENSKGEVETLKAKIEGMTQSLRG 2478
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Qy    225 LRKDLFSSRSKLQTVYSELDQ-----AKLEL--KSAQKDLQSADKEIMSLKKKLTMLQET 277
Db   2479 LELDVVTIRSEKENLTNELQKEQERISELEIINSSFENILQEKEQEKVQMKEKSSTAMEM 2538

Qy    278 L 278
Db   2539 L 2539


RESULT  12
US-09-085-199B-9
; Sequence 9, Application US/09085199B
; Patent No. 6235879
;  GENERAL INFORMATION:
;    APPLICANT:  Hayden. Michael R.
;    APPLICANT:  Hackam, Abigail
;    APPLICANT:  Huq, A.H.M. Mahbubul
;    APPLICANT:  Chopra, Vikramjit Singh
;    APPLICANT:  Kalchman, Michael
;    TITLE OF INVENTION:  Apoptosis Modulators That Interact with the
;    TITLE OF INVENTION:  Huntington's Disease Gene
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Oppedahl & Larson
;      STREET:  PO Box 5270
;      CITY:  Frisco
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80443-5270
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.44 Kb storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS DOS 5.0
;      SOFTWARE:  WordPerfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/085,199B
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Larson, Marina T.
;      REGISTRATION NUMBER:  32038
;      REFERENCE/DOCKET NUMBER:  UBC.P-013US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (970) 668-2050
;      TELEFAX:  (970) 668-2052
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  756
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  no
;    ORIGINAL SOURCE:
;      ORGANISM:  mouse
;    FEATURE:
;      OTHER INFORMATION:  Huntington-interacting protein
US-09-085-199B-9


  Query Match             6.6%;  Score 157;  DB 4;  Length 756;
  Best Local Similarity   20.8%;  Pred. No. 3.2e-05;
  Matches   82;  Conservative   71;  Mismatches  119;  Indels  122;  Gaps   16;

Qy     59 INKLFFDLAQEEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATV 118
Db     87 VNK------DEKDHLIER--LYREISGLTGQL---DNMKIESQRAMLQLKGRVSELEAEL 135

Qy    119 VSLQQALGKAEM-LCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQL 177
Db    136 AE-QQHLGRQAMDDCEFLRTELDELKRQREDTEKAQRSLTEIERKAQANEQRYSKLKEKY 194

Qy    178 PEV-----------EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEA---------RKA 217
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Db    195 SELVQNHADLLRKNAEVTKQVSVARQAQ-------VDLEREKKELADSFARVSDQAQRKT 247

Qy    218 --SGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 275
Db    248 QEQQDVLENLKHELATSRQELQVLHSNLE------------TSAQSEAKWLTQIAELEK 294

Qy    276 ETLNLPPVASETVDRLVLESPAPVEVNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQ-- 333
Db    295 EQGSLATVAAQREEEL---------------SALRDQLE--------------STQIK 323

Qy    334 -HGYYEKLCLEKSHSPIQDVPKKICKGPRKESQLSLGGQ----------SCAGEPDEELV 382
Db    324 LAGAQESMCQQ-----VKDQRKTLLAGIRKAAEREIQEALSQLEEPTLISCAGSTDHLL- 377

Qy    383 GAFPIFVRNAILGQKQPKRPRSESSCSKDVVRTG 416
Db    378 ----------------SKVSSVSSCLEQLEKNG 394


RESULT  13
US-09-104-324B-4
; Sequence 4, Application US/09104324B
; Patent No. 6232460
;  GENERAL INFORMATION:
;    APPLICANT:  T reci, Ozlem; Sahin, Ugur; Pfreundschuh, Michael
;    TITLE OF INVENTION:  Methods For Diagnosis And Treating Cancers,
;    TITLE OF INVENTION:  And Methods For Identifying Pathogenic Markers In A Sample
;    TITLE OF INVENTION:  No. 6232460mal Cells
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Fulbright & Jaworski LLP
;      STREET:  666 Fifth Avenue
;      CITY:  New York City
;      STATE:  New York
;      ZIP:  10103
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 144 kb storage
;      COMPUTER:  IBM
;      OPERATING SYSTEM:  PC-DOS
;      SOFTWARE:  Wordperfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/104,324B
;      FILING DATE:  25-June-1998
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/892,702
;      FILING DATE:  15-July-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hanson, No. 6232460man D.
;      REGISTRATION NUMBER:  30,946
;      REFERENCE/DOCKET NUMBER:  LUD 5491
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 318-3000
;      TELEFAX:  (212) 752-5958
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  976 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-09-104-324B-4


  Query Match             6.5%;  Score 156;  DB 4;  Length 976;
  Best Local Similarity   23.3%;  Pred. No. 5.6e-05;
  Matches   86;  Conservative   51;  Mismatches  110;  Indels  122;  Gaps   16;

Qy     68 QEE------ENVLDREF-LKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVS 120
Db    554 QEERMLKQIENLQETETQLRNELEYVREEL----KQKRD-------------------E 589

Qy    121 LQQALGKAEMLCSTLKKQM----KYLEQQQDETKQAQEEAGRLRSKMKTMEQI-----EL 171
```

```
Db    590 VKCKLDKSEENCNNLRKQVENKNKYIEELQQENK-ALKKKGTAESKQLNVYEIKVNKLEL 648

Qy    172 LLQSQ----------'-------------LPEVE--EMIRDMGVG---------QSAVE 195
           |:|                          | |||  ::| |  |          |  :
Db    649 ELESAKQKFGEITDTYQKEIEDKKISEENLLEEVEKAKVIADEAVKLQKEIDKRCQHKIA 708

Qy    196 QLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQK 255
           ::       | :|: : | | :   :     ::  | |: |:    ||   | || | :|
Db    709 EMVALMEKHKHQYDKIIEERDSELGLYKSKEQEQSSLRASLEI---ELSNLKAELLSVKK 765

Qy    256 DLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEVNLKLRRPSF----- 310
           |:   :|   ||::    : |  |     :     :||:|   |:  ||   :
Db    766 QLEIEREEKEKLKREAK--ENTATLKEKKDKKTQTFLLETP---EIYWKLDSKAVPSQTV 820

Qy    311 --------------RDDIDLNATFDVDTP---------PARPSSSQHGYYEKLCLEKSH 346
                         || :  :|   : ||         | :|  |          |  :
Db    821 SRNFTSVDHGISKDKRDYLWTSAKNTLSTPLPKAYTVKTPTKPKLQQR--------ENLN 872

Qy    347 SPIQDVPKK 355
           ||::  ||
Db    873 IPIEESKKK 881


RESULT 14
US-09-310-187A-1
; Sequence 1, Application US/09310187A
; Patent No. 6358751
; GENERAL INFORMATION:
;  APPLICANT:  Benichou, Gilles
;  APPLICANT:  Fedoseyeva, Eugenia
;  TITLE OF INVENTION:  Involvement of Autoantigens in Cardiac
;  TITLE OF INVENTION:  Graft Rejection
;  FILE REFERENCE:  UCSF-090
;  CURRENT APPLICATION NUMBER: US/09/310,187A
;  CURRENT FILING DATE:  1999-05-12
;  NUMBER OF SEQ ID NOS:  3
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 1
;   LENGTH: 1939
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-310-187A-1


  Query Match             6.5%;  Score 156;  DB 4;  Length 1939;
  Best Local Similarity   22.1%;  Pred. No. 0.00015;
  Matches   75;  Conservative   59;  Mismatches  127;  Indels   78;  Gaps   10;

Qy     79 LKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCSTLKKQ 138
          |  :|:   | :||  : |      :: |:  |||      :|  ||  |   |  |:
Db   1289 LARQLEEKEALISQLTRGKLSYTQQMEDLKRQLEEEGKAKNALAHALQSARHDCDLLR-- 1346

Qy    139 MKYLEQQQDETK----------QAQEEAGRLRSKMKT--------MEQIELLLQSQLPEV 180
              || ::||:          :|  |  : |:| :|        :|: :  |  :| :
Db   1347 ----EQYEEETEAKAELQRVLSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDA 1402

Qy    181 EEMIRDMGVGQSAVEQLAVYCVSLKK-------EYENLK---EARKASGEVADKLRKDLF 230
          ||          ||| :   | ||:|       | |:|    |   |:    || :::
Db   1403 EE----------AVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFD 1452

Qy    231 SSRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKL--------TMLQETLNLPP 282
             :: :  | |   :: ||:|:||: :|   |:  ||           |  :|  ||
Db   1453 KILAEWKQKYEE---SQSELESSQKEARSLSTELFKLKNAYEESLEHLETFKRENKNLQE 1509

Qy    283 VASETVDRLVLESPAPVEVNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYYEKLCL 342
            |:  ::|  |    |    |:|:    : ::| :                       |
Db   1510 EISDLTEQLG-EGGKNVHELEKVRKQLEVEKLELQS----------------------AL 1546

Qy    343 EKSHSPIQDVPKKICKGPRKESQLSLGGQSCAGEPDEEL 381
          |:: : ::    || :   : :|:    :    | |||:
Db   1547 EEAEASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEM 1585


RESULT 15
US-08-938-105-3
; Sequence 3, Application US/08938105
; Patent No. 6353151
;  GENERAL INFORMATION:
;    APPLICANT:  Leinwand, Leslie A.
;    APPLICANT:  Vikstrom, Karen L.
;    TITLE OF INVENTION:  TRANSGENIC MODEL FOR HEART FAILURE
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln St., Suite 3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/938,105
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Crook, Wannell M.
;      REGISTRATION NUMBER:  31,071
;      REFERENCE/DOCKET NUMBER:  3595-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 1886 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-938-105-3


  Query Match             6.5%;  Score 154;  DB 4;  Length 1886;
  Best Local Similarity   20.6%;  Pred. No. 0.00021;
  Matches   82;  Conservative   78;  Mismatches  148;  Indels   90;  Gaps   13;

Qy     28 TFHLQCLIQSFETAPSRTCPQCRIQVGKRTI---INKLFFDLAQEEENVLD----REFLK 80
          | |:: :|::          :  ::   ||:    |:    | : : :: |    |  |:
Db   1181 TSHMEQIIKA----------KANLEKVSRTLEDQANEYRVKLEEAQRSLNDFTTQRAKLQ 1230

Qy     81 NELDNVRAQLSQKD-------KEKRDSQVIIDTLRDTLEE----RNATVVSLQQALGKAE 129
          |   :  || :|:        : |       :: |:  |||     :||   :|| |    :
Db   1231 TENGELARQLEEKEALIWQLTRGKLSYTQQMEDLKRQLEEEGKAKNALAHALQSARHDCD 1290

Qy    130 MLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKT--------MEQIELLLQSQLPEVE 181
          :|   :::|:    : |     :|  |  : |:| :|        :|: :  |  :| : |
Db   1291 LLREQYEEEMEAKAELQRVLSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDAE 1350

Qy    182 EMIRDMGVGQSAVEQLAVYCVSLKK-------EYENLK---EARKASGEVADKLRKDLFS 231
          |          ||| :   | ||:|       | |:|    |   |:    || :::
Db   1351 E----------AVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDK 1400

Qy    232 SRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKL--------TMLQETLNLPPV 283
            :: :  | |   :: ||:|:||: :|   |:  ||           |  :|  ||
Db   1401 ILAEWKQKYEE---SQSELESSQKEARSLSTELFKLKNAYEESLEHLETFKRENKNLQEE 1457

Qy    284 ASETVDRLVLESPAPVEVNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYYEKLCLE 343
           |:  ::|  |    |    |:|:    : ::| :                        ||
Db   1458 ISDLTEQLG-EGGKNVHELEKIRKQLEVEKLELQS----------------------ALE 1494

Qy    344 KSHSPIQDVPKKICKGPRKESQLSLGGQSCAGEPDEEL 381
          :: : ::    || :   : :|:    :    | |||:
Db   1495 EAEASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEM 1532
```

```
RESULT 16
US-08-466-390-4
; Sequence 4, Application US/08466390
; Patent No. 5686562
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;      STREET:  125 HIGH STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/466,390
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-466-390-4


  Query Match             6.4%;  Score 152;  DB 1;  Length 2101;
  Best Local Similarity   21.0%;  Pred. No. 0.00037;
  Matches   97;  Conservative   72;  Mismatches  160;  Indels  132;  Gaps   19;

Qy      44 RTCPQCRIQ----VGKRTIINKLFFDLAQEEENV-----LDREFLKNELDNVRAQLSQK- 93
           ||  | | :      : ::: |    ||:|   :     | |:||: |||  | :  |:
Db    1421 RTAQQLRAEKASYAEQLSMLKKAHGLLAEENRGLGERANLGRQFLEVELDQAREKYVQEL 1480

Qy      94 -----DKEKRDSQV---IIDTLRD-------------TLEERNATVVSLQQALGKAEML 131
                | | | ::|      | |:               ||||       |:   : | |
Db    1481 AAVRADAETRLAEVQREAQSTARELEVMTAKYEGAKVKVLEERQRFQEERQKLTAQVEEL 1540

Qy     132 CSTL-------KKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMI 184
             |       | | : |:  | :  ::|:|| | ::::         ||:|| : |:
Db    1541 SKKLADSDQASKVQQQKLKAVQAQGGESQQEAQRFQAQLNE-------LQAQLSQKEQ-- 1591

Qy     185 RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGE---VADKLRKDLFSSRSKLQTVYS 241
                | |   :     |  |:  |:  :   |     ::|:|:    |:: : :
Db    1592 --------AAEHYKLQMEKAKTHYDAKKQQNQELQEQLRSLEQLQKENKELRAEAERLGH 1643

Qy     242 ELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEV 301
           || || |: | |::  :    :: ||: ::    : |         : :  : : |
Db    1644 ELQQAGLKTKEAEQTCRHLTAQVRSLEAQVAHADQQL-------RDLGKFQVATDA---- 1692

Qy     302 NLKLRRPSFRDDIDLNA-TFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGP 360
            || | |  :  :||:  : |:      | |                :  |:   |
Db    1693 -LKSREPQAKPQLDLSIDSLDLSCEEGTPLS-------------------ITSKL---P 1728

Qy     361 RKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSC--------SKDV 412
           | :      | |  |||      | ||        |: | :  |  |         |:

Db    1729 RTQPD----GTSVPGEP------ASPI-------SQRLPPKVESLESLYFTPIPARSQAP 1771

Qy     413 VRTGFDGLG-----------GRTKFIQPTDTVMIRPLPVK 441
           : :  | ||            | :  |  :  | : | |:
Db    1772 LESSLDSLGDVFLDSGRKTRSARRRTTQIINITMTKKLDVE 1812


RESULT 17
US-08-470-950-4
; Sequence 4, Application US/08470950
; Patent No. 5698439
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;      STREET:  125 HIGH STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/470,950
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-470-950-4


  Query Match             6.4%;  Score 152;  DB 1;  Length 2101;
  Best Local Similarity   21.0%;  Pred. No. 0.00037;
  Matches   97;  Conservative   72;  Mismatches  160;  Indels  132;  Gaps   19;

Qy      44 RTCPQCRIQ----VGKRTIINKLFFDLAQEEENV-----LDREFLKNELDNVRAQLSQK- 93
           ||  | | :      : ::: |    ||:|   :     | |:||: |||  | :  |:
Db    1421 RTAQQLRAEKASYAEQLSMLKKAHGLLAEENRGLGERANLGRQFLEVELDQAREKYVQEL 1480

Qy      94 -----DKEKRDSQV---IIDTLRD-------------TLEERNATVVSLQQALGKAEML 131
                | | | ::|      | |:               ||||       |:   : | |
Db    1481 AAVRADAETRLAEVQREAQSTARELEVMTAKYEGAKVKVLEERQRFQEERQKLTAQVEEL 1540

Qy     132 CSTL-------KKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMI 184
             |       | | : |:  | :  ::|:|| | ::::         ||:|| : |:
Db    1541 SKKLADSDQASKVQQQKLKAVQAQGGESQQEAQRFQAQLNE-------LQAQLSQKEQ-- 1591

Qy     185 RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGE---VADKLRKDLFSSRSKLQTVYS 241
                | |   :     |  |:  |:  :   |     ::|:|:    |:: : :
Db    1592 --------AAEHYKLQMEKAKTHYDAKKQQNQELQEQLRSLEQLQKENKELRAEAERLGH 1643

Qy     242 ELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEV 301
           || || |: | |::  :    :: ||: ::    : |         : :  : : |
Db    1644 ELQQAGLKTKEAEQTCRHLTAQVRSLEAQVAHADQQL-------RDLGKFQVATDA---- 1692
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Qy    302 NLKLRRPSFRDDIDLNA-TFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGP 360
          || | |  :  :||:  : |:      | |                    :  |:   |
Db   1693 -LKSREPQAKPQLDLSIDSLDLSCEEGTPLS-------------------ITSKL---P 1728

Qy    361 RKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSC--------SKDV 412
          | :      | |  |||      | ||        |: | :  |  |          |:
Db   1729 RTQPD----GTSVPGEP------ASPI-------SQRLPPKVESLESLYFTPIPARSQAP 1771

Qy    413 VRTGFDGLG------------GRTKFIQPTDTVMIRPLPVK 441
          : :  | ||             | :  |  :  | : | |:
Db   1772 LESSLDSLGDVFLDSGRKTRSARRRTTQIINITMTKKLDVE 1812


RESULT 18
US-08-467-781-4
; Sequence 4, Application US/08467781
; Patent No. 5780596
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;      STREET:  125 HIGH STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,781
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-781-4


  Query Match             6.4%;  Score 152;  DB 1;  Length 2101;
  Best Local Similarity   21.0%;  Pred. No. 0.00037;
  Matches   97;  Conservative   72;  Mismatches  160;  Indels  132;  Gaps   19;

Qy     44 RTCPQCRIQ----VGKRTIINKLFFDLAQEEENV-----LDREFLKNELDNVRAQLSQK- 93
          ||  | | :      : ::: |    ||:|   :     | |:||: |||  | :  |:
Db   1421 RTAQQLRAEKASYAEQLSMLKKAHGLLAEENRGLGERANLGRQFLEVELDQAREKYVQEL 1480

Qy     94 -----DKEKRDSQV---IIDTLRD-------------TLEERNATVVSLQQALGKAEML 131
               | | ::|      | |:                ||||       |:   : | |
Db   1481 AAVRADAETRLAEVQREAQSTARELEVMTAKYEGAKVKVLEERQRFQEERQKLTAQVEEL 1540

Qy    132 CSTL-------KKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMI 184
             |       | | : |:  | :  ::|:|| | ::::         ||:|| : |:
Db   1541 SKKLADSDQASKVQQQKLKAVQAQGGESQQEAQRFQAQLNE-------LQAQLSQKEQ-- 1591

Qy    185 RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGE---VADKLRKDLFSSRSKLQTVYS 241
                  | |   :     |  |:  |:  :   |     ::|:|:    |:: : :
Db   1592 --------AAEHYKLQMEKAKTHYDAKKQQNQELQEQLRSLEQLQKENKELRAEAERLGH 1643

Qy    242 ELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEV 301
          || || |: | |::  :    :: ||: ::    : |         : :  : : |
Db   1644 ELQQAGLKTKEAEQTCRHLTAQVRSLEAQVAHADQQL-------RDLGKFQVATDA---- 1692

Qy    302 NLKLRRPSFRDDIDLNA-TFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGP 360
          || | |  :  :||:  : |:      | |                    :  |:   |
Db   1693 -LKSREPQAKPQLDLSIDSLDLSCEEGTPLS-------------------ITSKL---P 1728

Qy    361 RKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSC--------SKDV 412
          | :      | |  |||      | ||        |: | :  |  |          |:
Db   1729 RTQPD----GTSVPGEP------ASPI-------SQRLPPKVESLESLYFTPIPARSQAP 1771

Qy    413 VRTGFDGLG------------GRTKFIQPTDTVMIRPLPVK 441
          : :  | ||             | :  |  :  | : | |:
Db   1772 LESSLDSLGDVFLDSGRKTRSARRRTTQIINITMTKKLDVE 1812


RESULT 19
US-08-195-487-4
; Sequence 4, Application US/08195487
; Patent No. 5783403
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA HURWITZ & THIBEAULT
;      STREET:  53 STATE STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/195,487
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/901,701
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617/248-7000
;      TELEFAX:  617/248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-195-487-4


  Query Match             6.4%;  Score 152;  DB 1;  Length 2101;
  Best Local Similarity   21.0%;  Pred. No. 0.00037;
  Matches   97;  Conservative   72;  Mismatches  160;  Indels  132;  Gaps   19;

Qy     44 RTCPQCRIQ----VGKRTIINKLFFDLAQEEENV-----LDREFLKNELDNVRAQLSQK- 93
          ||  | | :      : ::: |    ||:|   :     | |:||: |||  | :  |:
Db   1421 RTAQQLRAEKASYAEQLSMLKKAHGLLAEENRGLGERANLGRQFLEVELDQAREKYVQEL 1480

Qy     94 -----DKEKRDSQV---IIDTLRD-------------TLEERNATVVSLQQALGKAEML 131
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Db   1481 AAVRADAETRLAEVQREAQSTARELEVMTAKYEGAKVKVLEERQRFQEERQKLTAQVEEL 1540

Qy    132 CSTL-------KKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMI 184
Db   1541 SKKLADSDQASKVQQQKLKAVQAQGGESQQEAQRFQAQLNE-------LQAQLSQKEQ-- 1591

Qy    185 RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGE---VADKLRKDLFSSRSKLQTVYS 241
Db   1592 --------AAEHYKLQMEKAKTHYDAKKQQNQELQEQLRSLEQLQKENKELRAEAERLGH 1643

Qy    242 ELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEV 301
Db   1644 ELQQAGLKTKEAEQTCRHLTAQVRSLEAQVAHADQQL-------RDLGKFQVATDA---- 1692

Qy    302 NLKLRRPSFRDDIDLNA-TFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGP 360
Db   1693 -LKSREPQAKPQLDLSIDSLDLSCEEGTPLS--------------------ITSKL---P 1728

Qy    361 RKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSC--------SKDV 412
Db   1729 RTQPD----GTSVPGEP------ASPI-------SQRLPPKVESLESLYFTPIPARSQAP 1771

Qy    413 VRTGFDGLG------------GRTKFIQPTDTVMIRPLPVK 441
Db   1772 LESSLDSLGDVFLDSGRKTRSARRRTTQIINITMTKKLDVE 1812
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RESULT 20
US-08-483-924-4
; Sequence 4, Application US/08483924
; Patent No. 5882876
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;      STREET:  125 HIGH STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/483,924
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-483-924-4
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  Query Match             6.4%;  Score 152;  DB 2;  Length 2101;
  Best Local Similarity   21.0%;  Pred. No. 0.00037;
  Matches   97;  Conservative   72;  Mismatches  160;  Indels  132;  Gaps   19;
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```
Qy     44 RTCPQCRIQ----VGKRTIINKLFFDLAQEEENV-----LDREFLKNELDNVRAQLSQK- 93
Db   1421 RTAQQLRAEKASYAEQLSMLKKAHGLLAEENRGLGERANLGRQFLEVELDQAREKYVQEL 1480

Qy     94 -----DKEKRDSQV---IIDTLRD-------------TLEERNATVVSLQQALGKAEML 131
Db   1481 AAVRADAETRLAEVQREAQSTARELEVMTAKYEGAKVKVLEERQRFQEERQKLTAQVEEL 1540

Qy    132 CSTL-------KKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMI 184
Db   1541 SKKLADSDQASKVQQQKLKAVQAQGGESQQEAQRFQAQLNE-------LQAQLSQKEQ-- 1591

Qy    185 RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGE---VADKLRKDLFSSRSKLQTVYS 241
Db   1592 --------AAEHYKLQMEKAKTHYDAKKQQNQELQEQLRSLEQLQKENKELRAEAERLGH 1643

Qy    242 ELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEV 301
Db   1644 ELQQAGLKTKEAEQTCRHLTAQVRSLEAQVAHADQQL-------RDLGKFQVATDA---- 1692

Qy    302 NLKLRRPSFRDDIDLNA-TFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGP 360
Db   1693 -LKSREPQAKPQLDLSIDSLDLSCEEGTPLS--------------------ITSKL---P 1728

Qy    361 RKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSC--------SKDV 412
Db   1729 RTQPD----GTSVPGEP------ASPI-------SQRLPPKVESLESLYFTPIPARSQAP 1771

Qy    413 VRTGFDGLG------------GRTKFIQPTDTVMIRPLPVK 441
Db   1772 LESSLDSLGDVFLDSGRKTRSARRRTTQIINITMTKKLDVE 1812
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RESULT 21
US-09-452-294-1
; Sequence 1, Application US/09452294
; Patent No. 6287790
; GENERAL INFORMATION:
;  APPLICANT:  Lelievre, Sophie
;  APPLICANT:  Bissell, Mina
;  TITLE OF INVENTION:  UTILIZATION OF NUCLEAR STRUCTURAL PROTEINS FOR TARGETED
;  TITLE OF INVENTION:  THERAPH AND DETECTION OF PROLIFERATIVE AND
;  TITLE OF INVENTION:  DIFFERENTIATION DISORDERS
;  FILE REFERENCE:  IB-1454- Sequence Submittal
; Patent No. 6287790
;  CURRENT APPLICATION NUMBER: US/09/452,294
;  CURRENT FILING DATE:  1999-11-30
;  PRIOR APPLICATION NUMBER:  60/110,420
;  PRIOR FILING DATE:  1998-11-30
;  NUMBER OF SEQ ID NOS:  1
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 2101
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-452-294-1
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  Query Match             6.4%;  Score 152;  DB 4;  Length 2101;
  Best Local Similarity   21.0%;  Pred. No. 0.00037;
  Matches   97;  Conservative   72;  Mismatches  160;  Indels  132;  Gaps   19;

Qy     44 RTCPQCRIQ----VGKRTIINKLFFDLAQEEENV-----LDREFLKNELDNVRAQLSQK- 93
Db   1421 RTAQQLRAEKASYAEQLSMLKKAHGLLAEENRGLGERANLGRQFLEVELDQAREKYVQEL 1480

Qy     94 -----DKEKRDSQV---IIDTLRD-------------TLEERNATVVSLQQALGKAEML 131
Db   1481 AAVRADAETRLAEVQREAQSTARELEVMTAKYEGAKVKVLEERQRFQEERQKLTAQVEEL 1540

Qy    132 CSTL-------KKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMI 184
```

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Db   1541 SKKLADSDQASKVQQQKLKAVQAQGGESQQEAQRFQAQLNE-------LQAQLSQKEQ-- 1591

Qy    185 RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGE---VADKLRKDLFSSRSKLQTVYS 241
          | |   :     |  |:  |:  :   |     ::|:|:    |:: : :
Db   1592 --------AAEHYKLQMEKAKTHYDAKKQQNQELQEQLRSLEQLQKENKELRAEAERLGH 1643

Qy    242 ELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEV 301
          || || |: | |::  :    :: ||: ::    : |       : :  : : |
Db   1644 ELQQAGLKTKEAEQTCRHLTAQVRSLEAQVAHADQQL-------RDLGKFQVATDA---- 1692

Qy    302 NLKLRRPSFRDDIDLNA-TFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGP 360
          || | |  :  :||:  : |:      | |                 :  |:   |
Db   1693 -LKSREPQAKPQLDLSIDSLDLSCEEGTPLS--------------------ITSKL---P 1728

Qy    361 RKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSC--------SKDV 412
          | :      | |  |||      | ||         |: | :  | |           |:
Db   1729 RTQPD----GTSVPGEP------ASPI-------SQRLPPKVESLESLYFTPIPARSQAP 1771

Qy    413 VRTGFDGLG------------GRTKFIQPTDTVMIRPLPVK 441
          : :  | ||             | :  |  :  | : | |:
Db   1772 LESSLDSLGDVFLDSGRKTRSARRRTTQIINITMTKKLDVE 1812


RESULT  22
PCT-US93-06160-4
; Sequence 4, Application PC/TUS9306160
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA HURWITZ & THIBEAULT
;      STREET:  53 STATE STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US93/06160
;      FILING DATE:  19930621
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617/248-7000
;      TELEFAX:  617/248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US93-06160-4


  Query Match             6.4%;  Score 152;  DB 5;  Length 2101;
  Best Local Similarity   21.0%;  Pred. No. 0.00037;
  Matches   97;  Conservative   72;  Mismatches  160;  Indels  132;  Gaps   19;

Qy     44 RTCPQCRIQ----VGKRTIINKLFFDLAQEEENV-----LDREFLKNELDNVRAQLSQK- 93
          ||  | | :      : ::: |    ||:|   :     | |:||: |||  | :  |:
Db   1421 RTAQQLRAEKASYAEQLSMLKKAHGLLAEENRGLGERANLGRQFLEVELDQAREKYVQEL 1480

Qy     94 -----DKEKRDSQV---IIDTLRD-------------TLEERNATVVSLQQALGKAEML 131
               | | | ::|      | |:              ||||       |:   : | |
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Db   1481 AAVRADAETRLAEVQREAQSTARELEVMTAKYEGAKVKVLEERQRFQEERQKLTAQVEEL 1540

Qy    132 CSTL-------KKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMI 184
             |       | | : |:  | :  ::|:|| | ::::         ||:|| : |:
Db   1541 SKKLADSDQASKVQQQKLKAVQAQGGESQQEAQRFQAQLNE-------LQAQLSQKEQ-- 1591

Qy    185 RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGE---VADKLRKDLFSSRSKLQTVYS 241
               | |   :     |  |:  |:  :   |     ::|:|:    |:: : :
Db   1592 --------AAEHYKLQMEKAKTHYDAKKQQNQELQEQLRSLEQLQKENKELRAEAERLGH 1643

Qy    242 ELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEV 301
          || || |: | |::  :    :: ||: ::    : |       : :  : : |
Db   1644 ELQQAGLKTKEAEQTCRHLTAQVRSLEAQVAHADQQL-------RDLGKFQVATDA---- 1692

Qy    302 NLKLRRPSFRDDIDLNA-TFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGP 360
          || | |  :  :||:  : |:      | |                 :  |:   |
Db   1693 -LKSREPQAKPQLDLSIDSLDLSCEEGTPLS--------------------ITSKL---P 1728

Qy    361 RKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSC--------SKDV 412
          | :      | |  |||      | ||         |: | :  | |           |:
Db   1729 RTQPD----GTSVPGEP------ASPI-------SQRLPPKVESLESLYFTPIPARSQAP 1771

Qy    413 VRTGFDGLG------------GRTKFIQPTDTVMIRPLPVK 441
          : :  | ||             | :  |  :  | : | |:
Db   1772 LESSLDSLGDVFLDSGRKTRSARRRTTQIINITMTKKLDVE 1812


RESULT  23
US-08-095-737-2
; Sequence 2, Application US/08095737
; Patent No. 5487979
;  GENERAL INFORMATION:
;    APPLICANT:  DiFiore, Pier P
;    APPLICANT:  Fazioli, Francesca
;    TITLE OF INVENTION:  A Substrate for the Epidermal Growth
;    TITLE OF INVENTION:  Factor Receptor Kinase
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson & Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  California
;      COUNTRY:  United States of America
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/095,737
;      FILING DATE:  19930722
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Israelsen, Ned A
;      REGISTRATION NUMBER:  29,655
;      REFERENCE/DOCKET NUMBER:  NIH060.001A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 235-8550
;      TELEFAX:  (619) 235-0176
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  896 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-095-737-2


  Query Match             6.2%;  Score 149;  DB 1;  Length 896;
  Best Local Similarity   22.8%;  Pred. No. 0.0002;
  Matches   62;  Conservative   46;  Mismatches  110;  Indels   54;  Gaps    8;
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Qy      17 SRDVAAIHCGHTFHL--QCLIQSFE----TAPSRTCPQCRIQVGKRTIINKLFFDL-AQE 69
           |:|  |:     |||  | ||:  :      |    |  |  : |  | :    |  | :
Db     278 SKDQFAL----AFHLISQKLIKGIDPPHVLTPEMIPPSDRASLQKNIIGSSPVADFSAIK 333

Qy      70 EENVLDREF--LKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGK 127
           | : |: |   |: | :||   | :|:   :     :  |:| ::  |  :  ||    :
Db     334 ELDTLNNEIVDLQREKNNVEQDLKEKEDTIKQRTSEVQDLQDEVQRENTNLQKLQAQKQQ 393

Qy     128 AEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMIRDM 187
           : |   | :|   ||:|  | ::   |  :| | :|     ||  |
Db     394 VQELLDELDEQKAQLEEQLKEVRKKCAEEAQLISSLKA----ELTSQE------------ 437

Qy     188 GVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAK 247
                 |:: |   | |  | |   :: : |: :                   ::  |
Db     438 -------SQISTYEEELAKAREELSRLQQETAELEE-----------------SVESGK 472

Qy     248 LELKSAQKDLQSADKEIMSLKKKLTMLQETLN 279
           :|:  |: || : :|| |:: ||  :::  |
Db     473 AQLEPLQQHLQDSQQEISSMQMKLMEMKDLEN 504


RESULT  24
US-08-480-145-2
; Sequence 2, Application US/08480145
; Patent No. 5717067
;  GENERAL INFORMATION:
;    APPLICANT:  DiFiore, Pier P
;    APPLICANT:  Fazioli, Francesca
;    TITLE OF INVENTION:  A Substrate for the Epidermal Growth
;    TITLE OF INVENTION:  Factor Receptor Kinase
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson & Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  California
;      COUNTRY:  United States of America
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/480,145
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/095,737
;      FILING DATE:  22-JUL-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Israelsen, Ned A
;      REGISTRATION NUMBER:  29,655
;      REFERENCE/DOCKET NUMBER:  NIH060.001A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 235-8550
;      TELEFAX:  (619) 235-0176
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  896 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-480-145-2


  Query Match             6.2%;  Score 149;  DB 1;  Length 896;
  Best Local Similarity   22.8%;  Pred. No. 0.0002;
  Matches   62;  Conservative   46;  Mismatches  110;  Indels   54;  Gaps    8;

Qy      17 SRDVAAIHCGHTFHL--QCLIQSFE----TAPSRTCPQCRIQVGKRTIINKLFFDL-AQE 69
           |:|  |:     |||  | ||:  :      |    |  |  : |  | :    |  | :
Db     278 SKDQFAL----AFHLISQKLIKGIDPPHVLTPEMIPPSDRASLQKNIIGSSPVADFSAIK 333

Qy      70 EENVLDREF--LKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGK 127
           | : |: |   |: | :||   | :|:   :     :  |:| ::  |  :  ||    :
Db     334 ELDTLNNEIVDLQREKNNVEQDLKEKEDTIKQRTSEVQDLQDEVQRENTNLQKLQAQKQQ 393

Qy     128 AEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMIRDM 187
           : |   | :|   ||:|  | ::   |  :| | :|     ||  |
Db     394 VQELLDELDEQKAQLEEQLKEVRKKCAEEAQLISSLKA----ELTSQE------------ 437

Qy     188 GVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAK 247
                 |:: |   | |  | |   :: : |: :                   ::  |
Db     438 -------SQISTYEEELAKAREELSRLQQETAELEE-----------------SVESGK 472

Qy     248 LELKSAQKDLQSADKEIMSLKKKLTMLQETLN 279
           :|:  |: || : :|| |:: ||  :::  |
Db     473 AQLEPLQQHLQDSQQEISSMQMKLMEMKDLEN 504


RESULT  25
US-08-477-389-2
; Sequence 2, Application US/08477389
; Patent No. 5872219
;  GENERAL INFORMATION:
;    APPLICANT:  DiFiore, Pier P
;    APPLICANT:  Fazioli, Francesca
;    TITLE OF INVENTION:  A Substrate for the Epidermal Growth
;    TITLE OF INVENTION:  Factor Receptor Kinase
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson & Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  California
;      COUNTRY:  United States of America
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/477,389
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/095,737
;      FILING DATE:  22-JUL-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Israelsen, Ned A
;      REGISTRATION NUMBER:  29,655
;      REFERENCE/DOCKET NUMBER:  NIH060.001A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 235-8550
;      TELEFAX:  (619) 235-0176
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  896 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-477-389-2


  Query Match             6.2%;  Score 149;  DB 2;  Length 896;
  Best Local Similarity   22.8%;  Pred. No. 0.0002;
  Matches   62;  Conservative   46;  Mismatches  110;  Indels   54;  Gaps    8;

Qy      17 SRDVAAIHCGHTFHL--QCLIQSFE----TAPSRTCPQCRIQVGKRTIINKLFFDL-AQE 69
           |:|  |:     |||  | ||:  :      |    |  |  : |  | :    |  | :
Db     278 SKDQFAL----AFHLISQKLIKGIDPPHVLTPEMIPPSDRASLQKNIIGSSPVADFSAIK 333

Qy      70 EENVLDREF--LKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGK 127
           | : |: |   |: | :||   | :|:   :     :  |:| ::  |  :  ||    :
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Db    334 ELDTLNNEIVDLQREKNNVEQDLKEKEDTIKQRTSEVQDLQDEVQRENTNLQKLQAQKQQ 393

Qy    128 AEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMIRDM 187
Db    394 VQELLDELDEQKAQLEEQLKEVRKKCAEEAQLISSLKA----ELTSQE------------ 437

Qy    188 GVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAK 247
Db    438 -------SQISTYEEELAKAREELSRLQQETAELEE-----------------SVESGK 472

Qy    248 LELKSAQKDLQSADKEIMSLKKKLTMLQETLN 279
Db    473 AQLEPLQQHLQDSQQEISSMQMKLMEMKDLEN 504


RESULT 26
PCT-US93-03077-1
; Sequence 1, Application PC/TUS9303077
;  GENERAL INFORMATION:
;    APPLICANT:  Board of Regents, The Universityof Texas System
;    APPLICANT:  Gaynor, Richard B.
;    APPLICANT:  Wu, Foon Kin
;    TITLE OF INVENTION:  PROTEIN CELLULAR FACTOR USEFUL FOR
;    TITLE OF INVENTION:  REGULATING GENE EXPRESSION
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  Texas
;      COUNTRY:  USA
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US93/03077
;      FILING DATE:  19930331
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/862,025
;      FILING DATE:  April 2, 1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kammerer, Patricia A.
;      REGISTRATION NUMBER:  29,775
;      REFERENCE/DOCKET NUMBER:  UTFD270PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  713-787-1540
;      TELEFAX:  713-749-2679
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1093 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
PCT-US93-03077-1


  Query Match             6.2%;  Score 149;  DB 5;  Length 1093;
  Best Local Similarity   21.3%;  Pred. No. 0.00026;
  Matches   99;  Conservative   88;  Mismatches  155;  Indels  122;  Gaps   21;

Qy     59 INKLFFDLAQEEEN---VLD--REFLKNELDNVRAQLSQKDKEKRD-SQVIIDTLRDTLE 112
Db    593 LNKKVKELEEELQHLKQVLDGKEEVEKQHRENIKKLNSMVERQEKDLGRLQVD--MDELE 650

Qy    113 ERNATVVSLQQALGKA---------------EMLCSTLKKQMK-------YLEQQQDET 149
Db    651 EKNR---SIQAALDSAYKELTDLHKANAAKDSEAQEAALSREMKAKEELSAALEKAQEEA 707

Qy    150 KQAQE----EAGRLRSKMKTMEQIELL-----------LQSQLPEVEEMIRDMGVGQSAV 194
Db    708 RQQQETLAIQVGDLRLALQRTEQAAARKEDYLRHEIGELQQRLQEAENRNQELSQSVSST 767

Qy    195 EQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQ 254
Db    768 TR------PLLRQIENLQATLGSQTSSWEKLEKNLSDRLGESQTL----------LAAAV 811

Qy    255 KDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEVNLKLRRPSFRDDI 314
Db    812 ERERAATEELLANKIQMSSM----------ESQNSLLRQENSRFQAQLESEKNRLCKLE 860

Qy    315 DLNATFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGPRKE-----SQLSLG 369
Db    861 DENNRYQVE----------------LEN----LKDEYVRTLEETRKEKTLLNSQLEME 898

Qy    370 GQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESS---CSKDVVRTGFDGLGGRTKF 426
Db    899 RMKVEQERKK------AIFTQETI--KEKERKPFSVSSTPTMSRSSSISGVDMAGLQTSF 950

Qy    427 IQPTDT--VMIRPLPVKPKTK-----VKQRVRVKTVPSLFQAKL 463
Db    951 LSQDESHDHSFGPMPISAKWKHLYAACKDGSRIKHIENL-QSQL 993


RESULT 27
US-08-687-080-51
; Sequence 51, Application US/08687080
; Patent No. 5965427
;  GENERAL INFORMATION:
;    APPLICANT:  Gregory Dolganov
;    TITLE OF INVENTION:  Human RAD50 Gene and Methods of Use Thereof
;    NUMBER OF SEQUENCES:  175
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dehlinger & Associates
;      STREET:  350 Cambridge Avenue, Suite 250
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94306
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/687,080
;      FILING DATE:  17-JUL-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/592,126
;      FILING DATE:  26-JAN-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sholtz, Charles K.
;      REGISTRATION NUMBER:  38,615
;      REFERENCE/DOCKET NUMBER:  4600-0111.30
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 324-0880
;      TELEFAX:  (415) 324-0960
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1312 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      INDIVIDUAL ISOLATE:  TRANS. OF RAD50 cDNA (SEQ. 54), NT.
;      INDIVIDUAL ISOLATE:  389 TO 4324
US-08-687-080-51
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  Query Match             6.2%;  Score 148.5;  DB 2;  Length 1312;
  Best Local Similarity   22.2%;  Pred. No. 0.00038;
  Matches   98;  Conservative   69;  Mismatches  126;  Indels  149;  Gaps   22;

Qy      52 QVGKRTIINKLFFDLAQEE-------ENVLDR------------EFL---KNELDNVRAQ 89
           | |:    |:|  | |::|       : : |:            | |   :||| ||: :
Db     404 QEGEAKTANQLMNDFAEKETLKQKQIDEIRDKKTGLGRIIELKSEILSKKQNELKNVKYE 463

Qy      90 LSQ----KDKEKRDSQVIIDTLRD-TLEERNAT-------VVSLQQALGKAEM------- 130
           | |     |:     | :|   |: :  |:|:        |:|||    ||::
Db     464 LQQLEGSSDRILELDQELIKAERELSKAEKNSNVETLKMEVISLQNE--KADLDRTLRKL 521

Qy     131 ----------------------------------------LCSTL-----KKQMK-YLE 143
                                                    | | |     |||:: :|
Db     522 DQEMEQLNHHTTTRTQMEMLTKDKADKDEQIRKIKSRHSDELTSLLGYFPNKKQLEDWLH 581

Qy     144 QQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVS 203
             :  |  | ::   :|  :: : || :  : ::|   || :       |  ::|   | |
Db     582 SKSKEINQTRDRLAKLNKELASSEQNKNHINNELKRKEEQL------SSYEDKLFDVCGS 635

Qy     204 ---------LKKEYE-NLKEARKASG----------EVADK------LRKDLFSSRSKLQ 237
                    ||:| | : |:    :|          :: |:      : : :| : ::||
Db     636 QDFESDLDRLKEEIEKSSKQRAMLAGATAVYSQFITQLTDENQSCCPVCQRVFQTEAELQ 695

Qy     238 TVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPA 297
           | |:| |:|| |  |   |:| : |   ||||     | | | |:    :|     | |
Db     696 EVISDL-QSKLRL--APDKLKSTESE---LKKKEKRRDEMLGLVPMRQSIIDLKEKEIP- 748

Qy     298 PVEVNLKLRRPS-----FRDDIDLNATFDVDTPPARPSSSQHGYYEKLCL------EKSH 346
             |:  ||:  :      ::||:   |      |   |:       |:||      |:
Db     749 --ELRNKLQNVNRDIQRLKNDIEEQETLLGTIMPEEESA-------KVCLTDVTIMERFQ 799

Qy     347 SPIQDVPKKICKGPRKESQLSL 368
           ::|| :|| :   |   : |
Db     800 MELKDVERKIAQQAAKLQGIDL 821


RESULT  28
US-08-098-327E-31
; Sequence 31, Application US/08098327E
; Patent No. 6270771
;  GENERAL INFORMATION:
;    APPLICANT:  GUERIN-MARCHAND, Claudine
;    APPLICANT:  DRUILHE, Pierre
;    TITLE OF INVENTION:  PEPTIDE SEQUENCES SPECIFIC FOR THE
;    TITLE OF INVENTION:  HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE
;    TITLE OF INVENTION:  OF STIMULATING THE T LYMPHOCYTES
;    NUMBER OF SEQUENCES:  46
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Burns, Doane, Swecker & Mathis
;      STREET:  P.O. Box 1404
;      CITY:  Alexandria
;      STATE:  Virginia
;      COUNTRY:  United States
;      ZIP:  22313-1404
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/098,327E
;      FILING DATE:  24-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  FR 91 01286
;      FILING DATE:  05-FEB-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McGowan, Malcolm K.
;      REGISTRATION NUMBER:  39,300
;      REFERENCE/DOCKET NUMBER:  010830-045
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 836-6620
;      TELEFAX:  (703) 836-2021
;  INFORMATION FOR SEQ ID NO:  31:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  316 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    PUBLICATION INFORMATION:
;      DOCUMENT NUMBER:  WO 92/13884
;      PUBLICATION DATE:  20-AUG-1992
US-08-098-327E-31


  Query Match             6.2%;  Score 147.5;  DB 4;  Length 316;
  Best Local Similarity   25.2%;  Pred. No. 6.1e-05;
  Matches   71;  Conservative   54;  Mismatches  102;  Indels   55;  Gaps   12;

Qy      68 QEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNA--TVVSLQQAL 125
           ||::: |::: |  |   :: | |  ::|:|  : : :   |  :|| |   :   |  |
Db      14 QEQQSDLEQDRLAKE--KLQEQQSDLEQERRAKEKLQEQQSDLEQERRAKEKLQEQQSDL 71

Qy     126 GKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRL----RSKMKTMEQIELLLQSQLPEVE 181
             :       |::|   ||| :   :: ||:   |    |:| |  ||     || | :
Db      72 EQERRAKEKLQEQQSDLEQDRLAKEKLQEQQSDLEQERRAKEKLQEQ-----QSDLEQER 126

Qy     182 EMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSR---SKLQT 238
                :   || :||       |:::  :|:: |:|  :: :: : ||   |    |||
Db     127 RAKEKLQEQQSDLEQERRAKEKLQEQQSDLEQERRAKEKLQEQ-QSDLEQERRAKEKLQE 185

Qy     239 VYSELDQ---AKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLES 295
           |:|:|   || :|:  |:||:    :    || |   :|  ::  :| :   |  ||
Db     186 QQSDLEQERRAKEKLQEQQRDLEQRKAD---TKKNLERKKEHGDI--LAEDLYGR--LEI 238

Qy     296 PAPVEVNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYY 337
           ||              |:|            || :: |||
Db     239 PA----------------IEL-----------PSENERGYY 252


RESULT  29
US-08-462-625-31
; Sequence 31, Application US/08462625
; Patent No. 6319502
;  GENERAL INFORMATION:
;    APPLICANT:  GUERIN-MARCHAND, Claudine
;    APPLICANT:  DRUILHE, Pierre
;    TITLE OF INVENTION:  PEPTIDE SEQUENCES SPECIFIC FOR THE
;    TITLE OF INVENTION:  HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE
;    TITLE OF INVENTION:  OF STIMULATING THE T LYMPHOCYTES
;    NUMBER OF SEQUENCES:  46
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Burns, Doane, Swecker & Mathis
;      STREET:  P.O. Box 1404
;      CITY:  Alexandria
;      STATE:  Virginia
;      COUNTRY:  United States
;      ZIP:  22313-1404
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/462,625
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/098,327
;      FILING DATE:  24-NOV-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  FR 91 01286
```

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;      FILING DATE:  05-FEB-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McGowan, Malcolm K.
;      REGISTRATION NUMBER:  39,300
;      REFERENCE/DOCKET NUMBER:  010830-078
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 836-6620
;      TELEFAX:  (703) 836-2021
;  INFORMATION FOR SEQ ID NO:  31:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  316 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    PUBLICATION INFORMATION:
;      DOCUMENT NUMBER:  WO 92/13884
;      PUBLICATION DATE:  20-AUG-1992
US-08-462-625-31


  Query Match             6.2%;  Score 147.5;  DB 4;  Length 316;
  Best Local Similarity   25.2%;  Pred. No. 6.1e-05;
  Matches   71;  Conservative   54;  Mismatches  102;  Indels   55;  Gaps   12;

Qy      68 QEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNA--TVVSLQQAL 125
           ||::: |::: |  |   :: | |  ::|:|  : : :   |  :|| |   :   |  |
Db      14 QEQQSDLEQDRLAKE--KLQEQQSDLEQERRAKEKLQEQQSDLEQERRAKEKLQEQQSDL 71

Qy     126 GKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRL----RSKMKTMEQIELLLQSQLPEVE 181
             :      |::|   ||| :   :: ||:   |    |:| |  ||      || | :
Db      72 EQERRAKEKLQEQQSDLEQDRLAKEKLQEQQSDLEQERRAKEKLQEQ-----QSDLEQER 126

Qy     182 EMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSR---SKLQT 238
               :   || :||       |::: :|:: |:|  :: :: : ||   |    |||
Db     127 RAKEKLQEQQSDLEQERRAKEKLQEQQSDLEQERRAKEKLQEQ-QSDLEQERRAKEKLQE 185

Qy     239 VYSELDQ---AKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLES 295
             |:|:|   || :|:  |:||:    :    || |   :|  ::  :| :   |  ||
Db     186 QQSDLEQERRAKEKLQEQQRDLEQRKAD---TKKNLERKKEHGDI--LAEDLYGR--LEI 238

Qy     296 PAPVEVNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYY 337
           ||                |:|            || :: |||
Db     239 PA----------------IEL------------PSENERGYY 252


RESULT  30
US-09-085-199B-5
; Sequence 5, Application US/09085199B
; Patent No. 6235879
;  GENERAL INFORMATION:
;    APPLICANT:  Hayden. Michael R.
;    APPLICANT:  Hackam, Abigail
;    APPLICANT:  Huq, A.H.M. Mahbubul
;    APPLICANT:  Chopra, Vikramjit Singh
;    APPLICANT:  Kalchman, Michael
;    TITLE OF INVENTION:  Apoptosis Modulators That Interact with the
;    TITLE OF INVENTION:  Huntington's Disease Gene
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Oppedahl & Larson
;      STREET:  PO Box 5270
;      CITY:  Frisco
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80443-5270
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.44 Kb storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS DOS 5.0
;      SOFTWARE:  WordPerfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/085,199B
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Larson, Marina T.
;      REGISTRATION NUMBER:  32038
;      REFERENCE/DOCKET NUMBER:  UBC.P-013US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (970) 668-2050
;      TELEFAX:  (970) 668-2052
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1090
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  no
;    ORIGINAL SOURCE:
;      ORGANISM:  human
;    FEATURE:
;      OTHER INFORMATION:  Huntington-interacting protein
US-09-085-199B-5


  Query Match             6.2%;  Score 147.5;  DB 4;  Length 1090;
  Best Local Similarity   21.1%;  Pred. No. 0.00035;
  Matches   54;  Conservative   63;  Mismatches   92;  Indels   47;  Gaps    8;

Qy      59 INKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATV 118
           :||       |:::::::|  |  |:  ::|||   :  | :|| ::  |:  : |  | :
Db     421 VNK------DEKDHLIER--LYREISGLKAQL---ENMKTESQRVVLQLKGHVSELEADL 469

Qy     119 VSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLP 178
             |    :|   |  |: ::  | :|:::|::||     :  | :  ||    |: :
Db     470 AEQQHLRQQAADDCEFLRAELDELRRQREDTEKAQRSLSEIERKAQANEQRYSKLKEKYS 529

Qy     179 EV----EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEA---------RKASG--EVAD 223
           |:     :::|       |       | |::| : |:::        ||     || :
Db     530 ELVQNHADLLRKNAEVTKQVSMARQAQVDLEREKKELEDSLERISDQGQRKTQEQLEVLE 589

Qy     224 KLRKDLFSSRSKLQTV----------------YSELDQAKLELKSA----QKDLQSADK 262
           |:::| :|: :|| :                ::||:: :  | |     :::| :  |
Db     590 SLKQELATSQRELQVLQGSLETSAQSEANWAAEFAELEKERDSLVSGAAHREEELSALRK 649

Qy     263 EIMSLKKKLTMLQETL 278
           |:   : ||   :|::
Db     650 ELQDTQLKLASTEESM 665


RESULT  31
US-08-592-126-148
; Sequence 148, Application US/08592126
; Patent No. 5821091
;  GENERAL INFORMATION:
;    APPLICANT:  Gregory Dolganov
;    TITLE OF INVENTION:  Transcripts Encoding Immunomodulatory
;    TITLE OF INVENTION:  Polypeptides
;    NUMBER OF SEQUENCES:  151
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dehlinger & Associates
;      STREET:  350 Cambridge Avenue, Suite 250
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94306
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/592,126
;      FILING DATE:
;      CLASSIFICATION:  435
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```
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sholtz, Charles K.
;      REGISTRATION NUMBER:  38,615
;      REFERENCE/DOCKET NUMBER:  4600-0111
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 324-0880
;      TELEFAX:  (415) 324-0960
;  INFORMATION FOR SEQ ID NO:  148:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1312 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ORIGINAL SOURCE:
;      INDIVIDUAL ISOLATE:  Rad50.pro-translation of SEQ ID NO:54
US-08-592-126-148


  Query Match             6.2%;  Score 147.5;  DB 2;  Length 1312;
  Best Local Similarity   22.2%;  Pred. No. 0.00046;
  Matches   98;  Conservative   69;  Mismatches  126;  Indels  149;  Gaps   22;

Qy      52 QVGKRTIINKLFFDLAQEE-------ENVLDR------------EFL---KNELDNVRAQ 89
           | |:    |:|  | |::|       : : |:            | |   :||| ||: :
Db     404 QEGEAKTANQLMNDFAEKETLKQKQIDEIRDKKTGLGRIIELKSEILSKKQNELKNVKYE 463

Qy      90 LSQ----KDKEKRDSQVIIDTLRD-TLEERNAT-------VVSLQQALGKAEM------- 130
           | |     |:     | :|   |: :  |:|:         |:|||    ||::
Db     464 LQQLEGSSDRILELDQELIKAERELSKAEKNSNVETLKMEVISLQNE--KADLDRTLRKL 521

Qy     131 ----------------------------------------LCSTL-----KKQMK-YLE 143
                                                    | | |     |||:: :|
Db     522 DQEMEQLNHHTTTRTQMEMLTKDKADKDEQIRKIKSRHSDELTSLLGYFPNKKQLEDWLH 581

Qy     144 QQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVS 203
             :  |  | ::   :|  :: : || :  : ::|   || :       |  ::|   | |
Db     582 SKSKEINQTRDRLAKLNKELASSEQNKNHINNELKRREEQL------SSYEDKLFDVCGS 635

Qy     204 ---------LKKEYE-NLKEARKASG----------EVADK------LRKDLFSSRSKLQ 237
                    ||:| | : |:    :|          :: |:      : : :| : ::||
Db     636 QDFESDLDRLKEEIEKSSKQRAMLAGATAVYSQFITQLTDENQSCCPVCQRVFQTEAELQ 695

Qy     238 TVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPA 297
             | |:| |:|| |  |   |:| : |   ||||     | | | |:    :|    | |
Db     696 EVISDL-QSKLRL--APDKLKSTESE---LKKKEKRRDEMLGLVPMRQSIIDLKEKEIP- 748

Qy     298 PVEVNLKLRRPS-----FRDDIDLNATFDVDTPPARPSSSQHGYYEKLCL------EKSH 346
             |:  ||:  :      ::||:   |      |   |:       |:||      |:
Db     749 --ELRNKLQNVNRDIQRLKNDIEEQETLLGTIMPEEESA-------KVCLTDVTIMERFQ 799

Qy     347 SPIQDVPKKICKGPRKESQLSL 368
             ::|| :|| :   |   : |
Db     800 MELKDVERKIAQQAAKLQGIDL 821


RESULT  32
US-09-085-199B-4
; Sequence 4, Application US/09085199B
; Patent No. 6235879
;  GENERAL INFORMATION:
;    APPLICANT:  Hayden. Michael R.
;    APPLICANT:  Hackam, Abigail
;    APPLICANT:  Huq, A.H.M. Mahbubul
;    APPLICANT:  Chopra, Vikramjit Singh
;    APPLICANT:  Kalchman, Michael
;    TITLE OF INVENTION:  Apoptosis Modulators That Interact with the
;    TITLE OF INVENTION:  Huntington's Disease Gene
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Oppedahl & Larson
;      STREET:  PO Box 5270
;      CITY:  Frisco
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80443-5270
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.44 Kb storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS DOS 5.0
;      SOFTWARE:  WordPerfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/085,199B
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Larson, Marina T.
;      REGISTRATION NUMBER:  32038
;      REFERENCE/DOCKET NUMBER:  UBC.P-013US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (970) 668-2050
;      TELEFAX:  (970) 668-2052
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  914
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  no
;    ORIGINAL SOURCE:
;      ORGANISM:  human
;    FEATURE:  Huntington-interacting protein
US-09-085-199B-4


  Query Match             6.1%;  Score 146.5;  DB 4;  Length 914;
  Best Local Similarity   21.1%;  Pred. No. 0.00033;
  Matches   54;  Conservative   63;  Mismatches   92;  Indels   47;  Gaps    8;

Qy      59 INKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATV 118
             :||       |:::::::|  |  |:  ::|||   :  | :|| ::  |:  : |  | :
Db     245 VNK------DEKDHLIER--LYREISGLKAQL---ENMKTESQRVVLQLKGHVSELEADL 293

Qy     119 VSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLP 178
               |    :|   |  |: ::  | :|:::|::||     :  | :  ||    |: :
Db     294 AEQQHLRQQAADDCEFLRAELDELRRQREDTEKAQRSLSEIERKAQANEQRYSKLKEKYS 353

Qy     179 EV----EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEA---------RKASG--EVAD 223
             |:      :::|         |       | |::| : |:::           ||     || :
Db     354 ELVQNHADLLRKNAEVTKQVSMARQAQVDLEREKKELEDSLERISDQGQRKTQEQLEVLE 413

Qy     224 KLRKDLFSSRSKLQTV----------------YSELDQAKLELKSA----QKDLQSADK 262
             |:::| :|: :|| :                ::||:: :  | |     :::| :  |
Db     414 SLKQELGTSQRELQVLQGSLETSAQSEANWAAEFAELEKERDSLVSGAAHREEELSALRK 473

Qy     263 EIMSLKKKLTMLQETL 278
             |:   : ||   :|::
Db     474 ELQDTQLKLASTEESM 489


RESULT  33
US-09-085-199B-11
; Sequence 11, Application US/09085199B
; Patent No. 6235879
;  GENERAL INFORMATION:
;    APPLICANT:  Hayden. Michael R.
;    APPLICANT:  Hackam, Abigail
;    APPLICANT:  Huq, A.H.M. Mahbubul
;    APPLICANT:  Chopra, Vikramjit Singh
;    APPLICANT:  Kalchman, Michael
;    TITLE OF INVENTION:  Apoptosis Modulators That Interact with the
;    TITLE OF INVENTION:  Huntington's Disease Gene
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Oppedahl & Larson
;      STREET:  PO Box 5270
```

```
;      CITY:  Frisco
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80443-5270
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.44 Kb storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS DOS 5.0
;      SOFTWARE:  WordPerfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/085,199B
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Larson, Marina T.
;      REGISTRATION NUMBER:  32038
;      REFERENCE/DOCKET NUMBER:  UBC.P-013US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (970) 668-2050
;      TELEFAX:  (970) 668-2052
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1068
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  no
;    ORIGINAL SOURCE:
;      ORGANISM:  mouse
;    FEATURE:
;      OTHER INFORMATION:  Huntington-interacting protein -mHIP1a
US-09-085-199B-11


  Query Match           6.1%;  Score 146;  DB 4;  Length 1068;
  Best Local Similarity  21.8%;  Pred. No. 0.00046;
  Matches  113;  Conservative   84;  Mismatches  187;  Indels  134;  Gaps   23;

Qy      30 HLQCLIQSFETAPSRTCPQCRIQV------GKRTIINKLFFDL------AQEEENVLDRE 77
           |:: ::   | ||    |:  |::      |:  ::  ||       : :::  |  |
Db     298 HIKPVVVIPEEAPEEEEPENLIEISSAPPAGEPVVVADLFDQTFGPPNGSMKDDRDLQIE 357

Qy      78 FLKNELDNVRAQLSQKDKEKRDSQVIIDTLRD-------TLEERNATVVSLQQALGKAEM 130
            || |:: :||:|   :| | ::|  |  |:         |||:       |:||   |
Db     358 NLKREVETLRAEL---EKIKMEAQRYISQLKGQVNGLEAELEEQRK---QKQKALVDNEQ 411

Qy     131 LCSTLKKQMKYLEQQQDETKQAQEEAGR-------------------------LRSKMK 164
           |   |  |:| |: :    :  :||| |                          ||
Db     412 LRHEL-AQLKALQLEGARNQGLREEAERKASATEARYSKLKEKHSELINTHAELLRKNAD 470

Qy     165 TMEQIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADK 224
           | :|: :  |||    ||: |         ||||      |:| |   | :    :  :|
Db     471 TAKQLTVTQQSQ----EEVAR-------VKEQLAFQMEQAKRESEMKMEEQ---SDQLEK 516

Qy     225 LRKDLFSSRSKL---QTVYSELDQAKLELKSAQKDLQSADKEIMS--LKKKLTMLQETLN 279
           |:::| :   :|   |   |  :|:  || |:: |  :|:|| :|  ::::   |
Db     517 LKRELAARAGELARAQEALSRTEQSGSEL-SSRLDTLNAEKEALSGVVRQREAEL----- 570

Qy     280 LPPVASETVDRLVLESPAPVEVNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYYEK 339
              :|:::: |   |: :  :      :   |  :            |   | : |  :|
Db     571 ---LAAQSLVREKEEALSQEQQRSSQEKGELRGQL----------AEKESQEQGLRQK 615

Qy     340 LCLE----------KSHSPIQDVPKKICKGPRKESQLSLGGQSCAGEPDEELVGAFPIFV 389
           |  |          :: : :||   |:      :  | |    |   ||  :  |
Db     616 LLDEQLAVLRSAAAEAEAILQDAVSKL------DDPLHL---RCTSSPDYLVSRAQAAL- 665

Qy     390 RNAILGQKQPKR---PRSESSCSKDVVRTGFDGL-------GGRTKFIQPTDTV------ 433
            ::: | :|        || : :     | |  |        |  |  : |||
Db     666 -DSVSGLEQGHTQYLASSEDASALVAALTRFSHLAADTIVNGAATSHLAPTDPADRLMDT 724

Qy     434 ----MIRPLPVKPKTKVKQRVRVKTVPSLFQAKLDTFL 467
                | | :  : :  | |  :  ||| :| |   |
Db     725 CRECGARALELVGQLQ-DQTVLRRAQPSLMRAPLQGIL 761
```

```
RESULT  34
US-08-600-982-24
; Sequence 24, Application US/08600982
; Patent No. 6120991
;  GENERAL INFORMATION:
;    APPLICANT:  Carter, William G.
;    APPLICANT:  Gil, Susanna A.
;    APPLICANT:  Ryan, Maureen C.
;    TITLE OF INVENTION:  Epiligrin, an Epithelial Ligand for
;    TITLE OF INVENTION:  Integrins
;    NUMBER OF SEQUENCES:  30
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Christensen, O'Connor, Johnson, and Kindness
;      STREET:  1420 Fifth Avenue
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101-8100
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/600,982
;      FILING DATE:  02-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Shelton, Dennis K.
;      REGISTRATION NUMBER:  26,997
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 682-8100
;      TELEFAX:  (206) 224-0779
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1713 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;      DESCRIPTION:  E170 protein as translated from sequence
;      DESCRIPTION:  of FIGURES 15A-15F, and as shown also in FIGURES
;      DESCRIPTION:  19A-19R
US-08-600-982-24


  Query Match           6.1%;  Score 145.5;  DB 3;  Length 1713;
  Best Local Similarity  20.7%;  Pred. No. 0.00099;
  Matches   85;  Conservative   55;  Mismatches  116;  Indels  155;  Gaps   17;

Qy      34 LIQSFETAPSRTCPQCR-----------------IQVGKRTIINKLFFDLAQ------E 69
           | | |||   :     |                  : |  : :|  :   | |      |
Db     278 LNQEFETLQEKAQVNSRKAQTLNNNVNRATQSAKELDVKIKNVIRNVHILLKQISGTDGE 337

Qy      70 EENVLDREF-------------LKNELDNVRAQLSQKDKEKRDSQVII------------ 104
             ||   :|             |:|   |    | : : :||:||:::
Db     338 GNNVPSGDFSREWAEAQRMMRELRNR--NFGKHLREAEADKRESQLLLNRIRTWQKTHQG 395

Qy     105 ------DTLRDTLEERNATV----VSLQQALGKA----------EMLCSTLKKQMKYLEQ 144
                :::||:| |  | :      ||:|  :|          |     :::|:| :
Db     396 ENNGLANSIRDSLNEYEAKLSDLRARLQEAAAQAKQANGLNQENERALGAIQRQVKEINS 455

Qy     145 -QQDETK----------QAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMIRDM--GVGQ 191
            | | ||          |       :    |  |::    |     |: : :|::    |:
Db     456 LQSDFTKYLTTADSSLLQTNIALQLMEKSQKEYEKLAASLNEARQELSDKVRELSRSAGK 515

Qy     192 -SAVEQLAVYCVSLKK-------------------------EYENLKEARKASGEVADK 224
            | ||:   :  ||::                          |||:  | ||: : |::
Db     516 TSLVEEAEKHARSLQELAKQLEEIKRNASGDELVRCAVDAATAYENILNAIKAAEDAANR 575

Qy     225 LRKDLFSSRSKLQTVYSE---------------LDQAKLELKSAQKDLQSADKEIMSLK 268
               :| | ||||  |                 |::||:  |  ::::  |
```

```
Db    576 AAS---ASESALQTVIKEDLPRKAKTLSSNSDKLLNEAKMTQKKLKQEVSPA-------- 624

Qy    269 KKLTMLQETLNLPPVASETVDRLVLESPAPVEVNLKLRRPSF----RDDID 315
          |  ||:|||:  |  | :|           ||   |       | |||
Db    625 --LNNLQQTLNIVTVQKEVID----------TNLTTLRDGLHGIQRGDID 662


RESULT  35
PCT-US94-10261A-24
; Sequence 24, Application PC/TUS9410261A
;  GENERAL INFORMATION:
;    APPLICANT:  Carter, William G.
;    APPLICANT:  Gil, Susanna A.
;    APPLICANT:  Ryan, Maureen C.
;    TITLE OF INVENTION:  Epiligrin, an Epithelial Ligand for
;    TITLE OF INVENTION:  Integrins
;    NUMBER OF SEQUENCES:  30
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Christensen, O'Connor, Johnson, and Kindness
;      STREET:  1420 Fifth Avenue
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101-8100
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/10261A
;      FILING DATE:  02-SEP-1994
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Shelton, Dennis K.
;      REGISTRATION NUMBER:  26,997
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 682-8100
;      TELEFAX:  (206) 224-0779
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1713 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;      DESCRIPTION:  E170 protein as translated from sequence of
;      DESCRIPTION:  FIGURES 15A-15F, and as shown also in FIGURES 19A-19R
PCT-US94-10261A-24


  Query Match             6.1%;  Score 145.5;  DB 5;  Length 1713;
  Best Local Similarity   20.7%;  Pred. No. 0.00099;
  Matches   85;  Conservative   55;  Mismatches  116;  Indels  155;  Gaps   17;

Qy     34 LIQSFETAPSRTCPQCR-----------------IQVGKRTIINKLFFDLAQ------E 69
          | | |||   :    |                  : |  : :|  :   | |      |
Db    278 LNQEFETLQEKAQVNSRKAQTLNNNVNRATQSAKELDVKIKNVIRNVHILLKQISGTDGE 337

Qy     70 EENVLDREF-------------LKNELDNVRAQLSQKDKEKRDSQVII------------ 104
            ||   :|             |:|   |    | : : :||:||:::
Db    338 GNNVPSGDFSREWAEAQRMMRELRNR--NFGKHLREAEADKRESQLLLNRIRTWQKTHQG 395

Qy    105 ------DTLRDTLEERNATV----VSLQQALGKA----------EMLCSTLKKQMKYLEQ 144
               :::||:| |  | :      ||:|  :|          |     :::|:| :
Db    396 ENNGLANSIRDSLNEYEAKLSDLRARLQEAAAQAKQANGLNQENERALGAIQRQVKEINS 455

Qy    145 -QQDETK----------QAQEEAGRLRSKMKTMEQIELLLQSQLPEVEEMIRDM--GVGQ 191
           | | ||          |       :    |  |::   |     |: : :|::    |:
Db    456 LQSDFTKYLTTADSSLLQTNIALQLMEKSQKEYEKLAASLNEARQELSDKVRELSRSAGK 515

Qy    192 -SAVEQLAVYCVSLKK-------------------------EYENLKEARKASGEVADK 224
           | ||:   :  ||::                          |||:  | ||: : |::
Db    516 TSLVEEAEKHARSLQELAKQLEEIKRNASGDELVRCAVDAATAYENILNAIKAAEDAANR 575

Qy    225 LRKDLFSSRSKLQTVYSE---------------LDQAKLELKSAQKDLQSADKEIMSLK 268
             :| | ||||  |                 |::||:  |  ::::  |
Db    576 AAS---ASESALQTVIKEDLPRKAKTLSSNSDKLLNEAKMTQKKLKQEVSPA-------- 624

Qy    269 KKLTMLQETLNLPPVASETVDRLVLESPAPVEVNLKLRRPSF----RDDID 315
          |  ||:|||:  |  | :|           ||   |       | |||
Db    625 --LNNLQQTLNIVTVQKEVID----------TNLTTLRDGLHGIQRGDID 662


RESULT  36
5180810-1
;Patent No. 5180810
;    APPLICANT: Gomi, Hideyuki;Hozumi, Tatsunobu;Hattori, Shizuo;
;Tagawa, Chiaki;Kishimoto, Fumitaka;Bjorck, Lars
;    TITLE OF INVENTION: PROTEIN H CAPABLE OF BINDING TO IGG
;    NUMBER OF SEQUENCES: 4
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/376,641
;      FILING DATE: 07-JUL-1989
;SEQ ID NO:1:
;      LENGTH: 376
5180810-1


  Query Match             6.0%;  Score 144;  DB 6;  Length 376;
  Best Local Similarity   22.4%;  Pred. No. 0.00016;
  Matches   86;  Conservative   49;  Mismatches  117;  Indels  132;  Gaps   17;

Qy     68 QEEENVLDREFLK-------NELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVS 120
          |||   || :  |        |:| : : |: :: |::        | | : |
Db     49 QEEYKKLDEDNAKLVEVVETTSLENEKLK-SENEENKKN--------LDKLSKENQ---- 95

Qy    121 LQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIE---------- 170
               || |      | :: ||::   | |: |:|      : |  ||:|
Db     96 -----GKLE------KLELDYLKKLDHEHKEHQKEQQEQEERQKNQEQLERKYQREVEKR 144

Qy    171 ----LLLQSQLPEVEEMI---------RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKA 217
              | | || | |: |          ||:   ::| : |      |: |::| ||| ::
Db    145 YQEQLQKQQQL-ETEKQISEASRKSLSRDLEASRAAKKDLEAEHQKLEAEHQKLKEDKQI 203

Qy    218 SGEVADKLRKDLFSSRS----------KLQTVYSELDQAK------------LEL-KSA 253
          |      | :|| :|||:          ||:  : :| : |             ||  ::|
Db    204 SDASRQGLSRDLEASRAAKKELEANHQKLEAEHQKLKEDKQISDASRQGLSRDLEASRAA 263

Qy    254 QKDL----QSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEVNLKLRRPS 309
          :|:|    |  : |  :||::|    | |                          |||
Db    264 KKELEANHQKLEAEAKALKEQLAKQAEEL-----------------------AKLR--- 296

Qy    310 FRDDIDLNATFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGPRKESQLSLG 369
                  |  ||  :| :       |    |  :|         | | ||::  |
Db    297 ------AGKASDSQTPDTKPGN-------KAVPGKGQAPQAGTKPNQNKAPMKETKRQL- 342

Qy    370 GQSCAGEPDEELVGAFPIFVRNAI 393
             ||       | | |   |:
Db    343 --PSTGET------ANPFFTAAAL 358


RESULT  37
PCT-US93-03077-3
; Sequence 3, Application PC/TUS9303077
;  GENERAL INFORMATION:
;    APPLICANT:  Board of Regents, The Universityof Texas System
;    APPLICANT:  Gaynor, Richard B.
;    APPLICANT:  Wu, Foon Kin
;    TITLE OF INVENTION:  PROTEIN CELLULAR FACTOR USEFUL FOR
;    TITLE OF INVENTION:  REGULATING GENE EXPRESSION
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  Texas
```

```
;      COUNTRY:  USA
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US93/03077
;      FILING DATE:  19930331
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/862,025
;      FILING DATE:  April 2, 1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kammerer, Patricia A.
;      REGISTRATION NUMBER:  29,775
;      REFERENCE/DOCKET NUMBER:  UTFD270PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  713-787-1540
;      TELEFAX:  713-749-2679
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  414 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  peptide
PCT-US93-03077-3


  Query Match             6.0%;  Score 144;  DB 5;  Length 414;
  Best Local Similarity   23.8%;  Pred. No. 0.00018;
  Matches   60;  Conservative   47;  Mismatches   77;  Indels   68;  Gaps   10;

Qy      66 LAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTL---EERNATVVSLQ 122
           |:::|:     |||  :|:  |||    |||    :   | |:| :   :| :::: ||:
Db       5 LSEKEDVCKTVEFLNEKLEKREAQLLSLSKEKALLEEAFDNLKDEMFRVKEESSSISSLK 64

Qy     123 --------QALGKAEMLC---STLKKQMKYLEQ----------------QQDETKQAQEE 155
                  :|  | :: |      ||::| :::                  ::||  :   |
Db      65 DEFTQRIAEAEKKVQLACKERDAAKKEIKNIKEELATRLNSSETADLLKEKDEQIRGLME 124

Qy     156 AG--------------RLRSKMKTMEQIELLLQSQLPEVEEMIRDMGV---GQSAVEQL 197
            |                :||:| |  | :   |  :: |:|| :: :     |:  ||
Db     125 EGEKLSKQQLHNSNIIKKLRAKDKENENMVAKLNKKVKELEEELQHLKQVLDGKEEVE-- 182

Qy     198 AVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDL 257
                 |:  ||:|:       : ::  |||     :||    ||::     :| |  |
Db     183 -------KQHRENIKKL----NSMVERQEKDL----GRLQVDMDELEEKN---RSIQAAL 224

Qy     258 QSADKEIMSLKK 269
           || ||:  | |
Db     225 DSAYKELTDLHK 236


RESULT  38
US-08-533-306A-6
; Sequence 6, Application US/08533306A
; Patent No. 5837457
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/533,306A
;      FILING DATE:  September 25, 1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869COB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  816 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-533-306A-6


  Query Match             6.0%;  Score 142.5;  DB 2;  Length 816;
  Best Local Similarity   22.6%;  Pred. No. 0.00063;
  Matches   76;  Conservative   76;  Mismatches  144;  Indels   41;  Gaps   15;

Qy      61 KLFFDLAQEEENVLD-REFLKNELD---NVRAQLSQKDKEKRDSQVIIDTLRDTLE---- 112
           ||  |:|     : | :| |: |     ||  :| | ::|:   |   | | : :|
Db     183 KLAKDVASLSSQLQDTQELLQEETRQKLNVSTKLRQLEEERNSLQ---DQLDEEMEAKQN 239

Qy     113 -ERNATVVSLQQALGKAEM--LCSTL----------KKQMKYLEQQQDETKQAQEEAGRL 159
            ||: : :::| :  | ::    ||:          :|::: | || :|   | ::  :
Db     240 LERHISTLNIQLSDSKKKLQDFASTVEALEEGKKRFQKEIENLTQQYEEKAAAYDKLEKT 299

Qy     160 RSKMKTMEQIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASG 219
           :::::  |  :|::   |    ::: ::   |   :||     ::  :| : |  :|
Db     300 KNRLQ-QELDDLVV--DLDNQRQLVSNLEKKQRKFDQLLAEEKNISSKYAD--ERDRAEA 354

Qy     220 EVADKLRKDLFSSRSKLQTVYS--ELDQAKLELKSAQKDLQSA----DKEIMSLKKKLTM 273
           |  :|  | |  :|:  : : :  ||::    ||:  :|| |:     | :  |:|
Db     355 EAREKETKALSLARALEEALEAKEELERTNKMLKAEMEDLVSSKDDVGKNVHELEKSKRA 414

Qy     274 LQETL-NLPPVASETVDRLVLESPAP--VEVNLKLRRPSFRDDIDLNATFDVDTPPARPS 330
           |:  :  :      |  | |      |   :|||::  :  |  : || |  : :    |
Db     415 LETQMEEMKTQLEELEDELQASEDAKLRLEVNMQALKGQF--ERDLQARDEQNEEKRRQL 472

Qy     331 SSQ-HGYYEKLCLEKSHSPIQDVPKKICKGPRKESQL 366
           | | |  :|  |::   :    ||  :|  |: :|
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RESULT  39
US-08-742-923A-6
; Sequence 6, Application US/08742923A
; Patent No. 5869611
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
```

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;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/742,923A
;      FILING DATE:  No. 5869611ember 1, 1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869DVC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  816 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-742-923A-6


  Query Match             6.0%;  Score 142.5;  DB 2;  Length 816;
  Best Local Similarity   22.6%;  Pred. No. 0.00063;
  Matches   76;  Conservative   76;  Mismatches  144;  Indels   41;  Gaps   15;

Qy      61 KLFFDLAQEEENVLD-REFLKNELD---NVRAQLSQKDKEKRDSQVIIDTLRDTLE---- 112
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Db     183 KLAKDVASLSSQLQDTQELLQEETRQKLNVSTKLRQLEEERNSLQ---DQLDEEMEAKQN 239

Qy     113 -ERNATVVSLQQALGKAEM--LCSTL----------KKQMKYLEQQQDETKQAQEEAGRL 159
            ||: : :::| :  | ::    ||:          :|::: | || :|   | ::  :
Db     240 LERHISTLNIQLSDSKKKLQDFASTVEALEEGKKRFQKEIENLTQQYEEKAAAYDKLEKT 299

Qy     160 RSKMKTMEQIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASG 219
           :::::  |  :|::   |    ::: ::   |   :||     ::  :| :  |  :|
Db     300 KNRLQ-QELDDLVV--DLDNQRQLVSNLEKKQRKFDQLLAEEKNISSKYAD--ERDRAEA 354

Qy     220 EVADKLRKDLFSSRSKLQTVYS--ELDQAKLELKSAQKDLQSA----DKEIMSLKKKLTM 273
           |  :|  | |  :|:  : : :  ||::    ||:  :|| |:     | :  |:|
Db     355 EAREKETKALSLARALEEALEAKEELERTNKMLKAEMEDLVSSKDDVGKNVHELEKSKRA 414

Qy     274 LQETL-NLPPVASETVDRLVLESPAP--VEVNLKLRRPSFRDDIDLNATFDVDTPPARPS 330
           |:  :  :     |  | |     |   :|||::  :  |  : || |  : :    |
Db     415 LETQMEEMKTQLEELEDELQASEDAKLRLEVNMQALKGQF--ERDLQARDEQNEEKRRQL 472

Qy     331 SSQ-HGYYEKLCLEKSHSPIQDVPKKICKGPRKESQL 366
             | |  :|  |::   :    ||  :|  |: :|
Db     473 QRQLHEYETELEDERNERALAAAAKKKLEGDLKDLEL 509


RESULT  40
US-08-533-306A-4
; Sequence 4, Application US/08533306A
; Patent No. 5837457
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/533,306A
;      FILING DATE:  September 25, 1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869COB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  885 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-533-306A-4


  Query Match             6.0%;  Score 142.5;  DB 2;  Length 885;
  Best Local Similarity   22.6%;  Pred. No. 0.0007;
  Matches   76;  Conservative   76;  Mismatches  144;  Indels   41;  Gaps   15;

Qy      61 KLFFDLAQEEENVLD-REFLKNELD---NVRAQLSQKDKEKRDSQVIIDTLRDTLE---- 112
           ||  |:|     : | :| |: |     ||  :| | ::|:   |   | | : :|
Db     252 KLAKDVASLSSQLQDTQELLQEETRQKLNVSTKLRQLEEERNSLQ---DQLDEEMEAKQN 308

Qy     113 -ERNATVVSLQQALGKAEM--LCSTL----------KKQMKYLEQQQDETKQAQEEAGRL 159
            ||: : :::| :  | ::    ||:          :|::: | || :|   | ::  :
Db     309 LERHISTLNIQLSDSKKKLQDFASTVEALEEGKKRFQKEIENLTQQYEEKAAAYDKLEKT 368

Qy     160 RSKMKTMEQIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASG 219
           :::::  |  :|::   |    ::: ::   |   :||     ::  :| :  |  :|
Db     369 KNRLQ-QELDDLVV--DLDNQRQLVSNLEKKQRKFDQLLAEEKNISSKYAD--ERDRAEA 423

Qy     220 EVADKLRKDLFSSRSKLQTVYS--ELDQAKLELKSAQKDLQSA----DKEIMSLKKKLTM 273
           |  :|  | |  :|:  : : :  ||::    ||:  :|| |:     | :  |:|
Db     424 EAREKETKALSLARALEEALEAKEELERTNKMLKAEMEDLVSSKDDVGKNVHELEKSKRA 483

Qy     274 LQETL-NLPPVASETVDRLVLESPAP--VEVNLKLRRPSFRDDIDLNATFDVDTPPARPS 330
           |:  :  :     |  | |     |   :|||::  :  |  : || |  : :    |
Db     484 LETQMEEMKTQLEELEDELQASEDAKLRLEVNMQALKGQF--ERDLQARDEQNEEKRRQL 541

Qy     331 SSQ-HGYYEKLCLEKSHSPIQDVPKKICKGPRKESQL 366
             | |  :|  |::   :    ||  :|  |: :|
Db     542 QRQLHEYETELEDERNERALAAAAKKKLEGDLKDLEL 578


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